



**Westinghouse
Savannah River Company**

P.O. Box 616
Aiken, SC 29802

ESH-ERG-920689

March 17, 1993

Mr. J. D. Johnston, Chief
Federal Facilities Branch
U. S. Environmental Protection Agency
Region IV
345 Courtland Street, N. E.
Atlanta, GA 30365

Mr. H. W. Truesdale, P. E. Chief
Bureau of Solid and Hazardous Waste
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, SC 29201

Dear Sirs:

**ABANDONED DRUMS - CSX RAILROAD RIGHT OF WAY REMOVAL SITE
EVALUATION (U)**

Enclosed is the Abandoned Drums - CSX Railroad Right Of Way Removal Site Evaluation as required by Section X (Site Evaluations) of the Federal Facility Agreement (FFA). For the newly discovered release, a removal SE has been performed in accordance with Section 300.410 of the National Contingency Plan (NCP). The enclosed report documents the removal SE findings. Based on the findings no further action is recommended. A written response to the submittal is requested of EPA Region IV and SCDHEC in accordance with the referenced section of the FFA.

If you have a questions, please contact C. A. Amacher at (803) 725-8710.

Yours very truly,

J. W. Cook, Manager
Environmental Restoration and Geological Oversight
Environmental Protection Department

Enclosure

CC: w/Enclosure
A. B. Gould, Jr., 703-41A (Concur)
A. R. McClain, 703-A (Concur)
L. C. Goidell, 703-A
M. C. Reece, SCDHEC-Aiken

DOCKET NO. 001427 B

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SUP

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RECEIVED
MAR 23 1993
FEDERAL FACILITIES BRANCH
ATLANTA, GA

REMOVAL SITE EVALUATION REPORT

1.0 INTRODUCTION

For newly identified spills or releases of hazardous substances that can not be cleaned up in a timely manner under site spill response procedures, a removal site evaluation (SE) will be performed. The removal SE will be performed in accordance with Section 300.410 of the National Contingency Plan (NCP) and the Federal Facility Agreement (FFA), Section X, (Site Evaluations). The following Site Evaluation Report is on the nine (9) drums discovered along the Barnwell Spur of the CSX Railroad right of way within the bounds of SRS, March 27, 1992.

2.0 UNIT DESCRIPTION, OPERATIONAL HISTORY, AND WASTE CHARACTERISTICS

2.1 Location

The drums were discovered along the Barnwell Spur of the CSX Railroad right of way at Donora Station. Donora Station is the switch station used to transfer trains from CSX to the Savannah River Site. The site is located in Barnwell county, east of gate 20 in a remote area of SRS. The site is within the Lower Three Runs flood plain, approximately 175 feet from Lower Three Runs. The approximate site coordinates are N28800, E81000. The latitude and longitude are 33.2215 and 81.5096. See Appendix A for maps.

2.2 Site Description

On March 27, 1992, nine drums labeled kerosene were discovered along the Barnwell Spur of the CSX Railroad right of way within the bounds of SRS. The drums along with numerous empty beer cans and bottles were found at the bottom of the railroad embankment in close proximity to the switch station used to transfer trains from the CSX line to the Savannah River Site. The switch station was manned until the mid 1980's. The kerosene is believed to have been used for the heating of the operator's shed. It appears the drums were disposed of over the embankment and abandoned in the woods. Two (2) of the drums appeared to be partially full, and a few of the drums were labeled "kerosene" and "Atlantic Coastline" (the previous owner of the railroad). The embankment area in which the drums were found is heavily littered with empty beer cans. See Appendix A for photographs.

2.3 Operational History and Waste Characteristics

Upon review of kerosene's MSDS (flash point 100 degrees F), it was determined that waste kerosene may be hazardous due to ignitability. The NRC was notified of a possible release of a reportable quantity (RQ). SCDHEC-Aiken and Columbia and EPA-IV were also notified of a potential release to the environment.

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The site was visited the afternoon of March 27, 1992, by B. Benson, SCDHEC, W. Whitaker, DOE-ED, and C. Amacher, WSRC-EPD. It was determined that nine drums of material labeled kerosene had been found, collectively containing approximately 30 gallons. There was a faint odor of kerosene (or petroleum) in the air, and no visible release to the environment. The suspect oil sheen was determined by SCDHEC to be "swamp sheen" and not due to a release from the drums. The nine drums were over packed. The drums were removed from the site Monday, March 30, 1992, and were managed in a RCRA staging area (712-G) until the contents could be determined.

3.0 SAMPLING/MONITORING DATA HISTORY

3.1 Drums Sample Analysis Data

Samples were collected from the nine drums. The drums containing multiple layers of substance had a sample collected from each layer. The Savannah River Technical Center (SRTC), formally Savannah River Laboratory (SRL), performed the analysis for radioactivity, flash point and Gas Chromatography/Mass Spectrometry (a finger print analysis).

SRTC conducted a screening analysis and determined an aqueous and organic phase. The organic phase was determined to be kerosene and the aqueous phase was determined to be water with traces of kerosene. All of the samples flash points were determined to be in excess of 140 degrees F. The samples were also determined not to be radioactively contaminated. The material is not characteristically ignitable therefore, not a hazardous waste. In accordance with Section 302.4 of the National Contingency Plan (NCP), kerosene is not a hazardous substance, and was only considered a hazardous substance due to it potential ignitability. The drums sample analysis report is included in Appendix B.

3.2 Soil Sampling Data

The drums were essentially grouped in two locations. Two (2) composite soil samples of the top six (6) inches from the depressions left by the drums in the soil were collected each of the two locations. The samples were analyzed for Total Petroleum Hydrocarbons (TPH), and BTX constituents (Benzene, Toluene, Ethyl Benzene and Xylene). Low concentrations of TPH were detected at the site, however the concentrations were below any action levels. The BTEX constituents were below detection limits. The soil sample analysis report is included in Appendix C.

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4.0 GROUND WATER PATHWAY

4.1 Hydrologic Setting

The site is within the Lower Three Runs flood plain, approximately 175 feet from Lower Three Runs. The seven (7) drums not on the embankment were actually within the flood plain area.

5.0 SURFACE WATER PATHWAY

Surface drainage is to the southeast to the Lower Three Runs. It appears that there has been no release of a hazardous substance to the environment; therefore, there are no exposure targets.

6.0 SOIL EXPOSURE AND AIR PATHWAYS

Based on the soil sampling taken there has been no release of hazardous substances to the environment, therefore there are no exposure targets.

7.0 SUMMARY AND CONCLUSIONS

In accordance with 300.410(e)(3) of the NCP, the release involves neither a hazardous substance, nor pollutant or contaminant that may present an imminent and substantial danger to public health or welfare. No further action is recommended and the release site should be eliminated from further consideration as it poses no threat to human health and the environment.

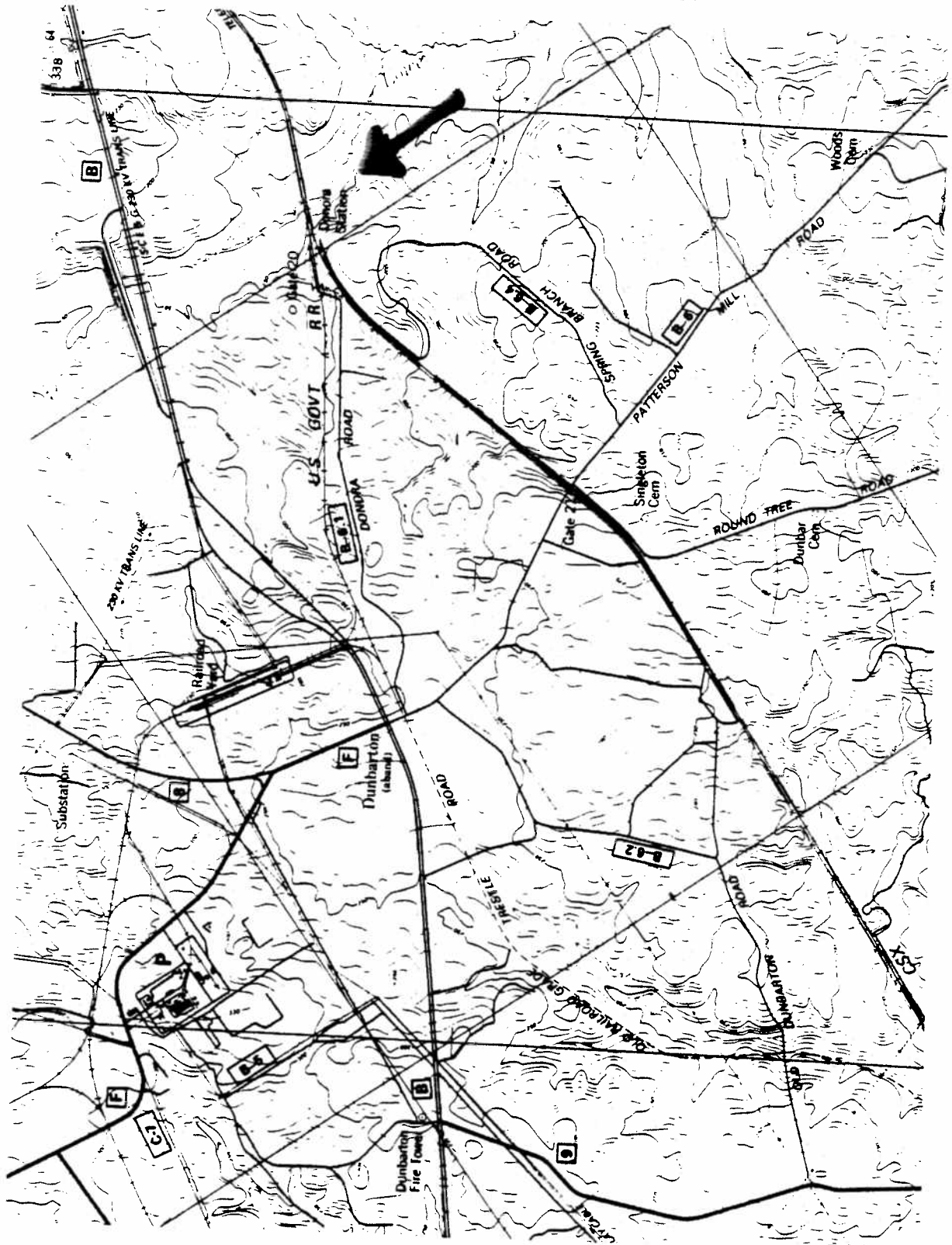
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Attachment #1

Site Map Location of Donora Station

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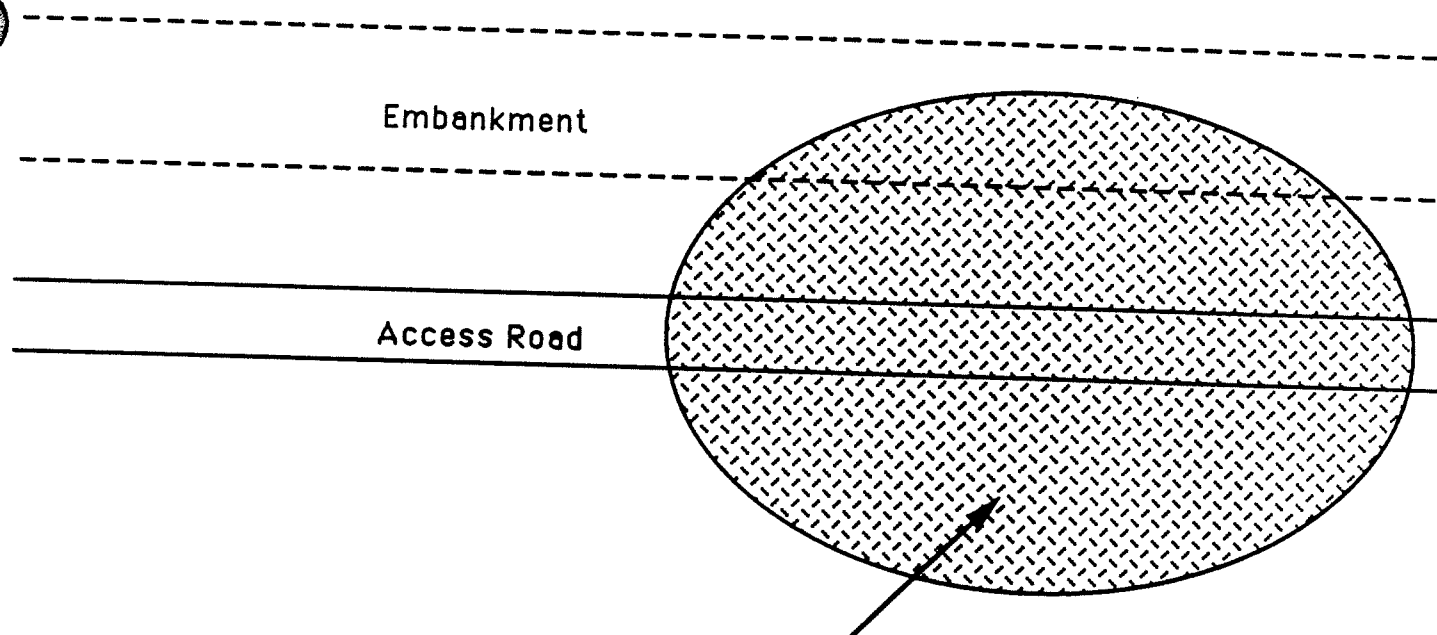
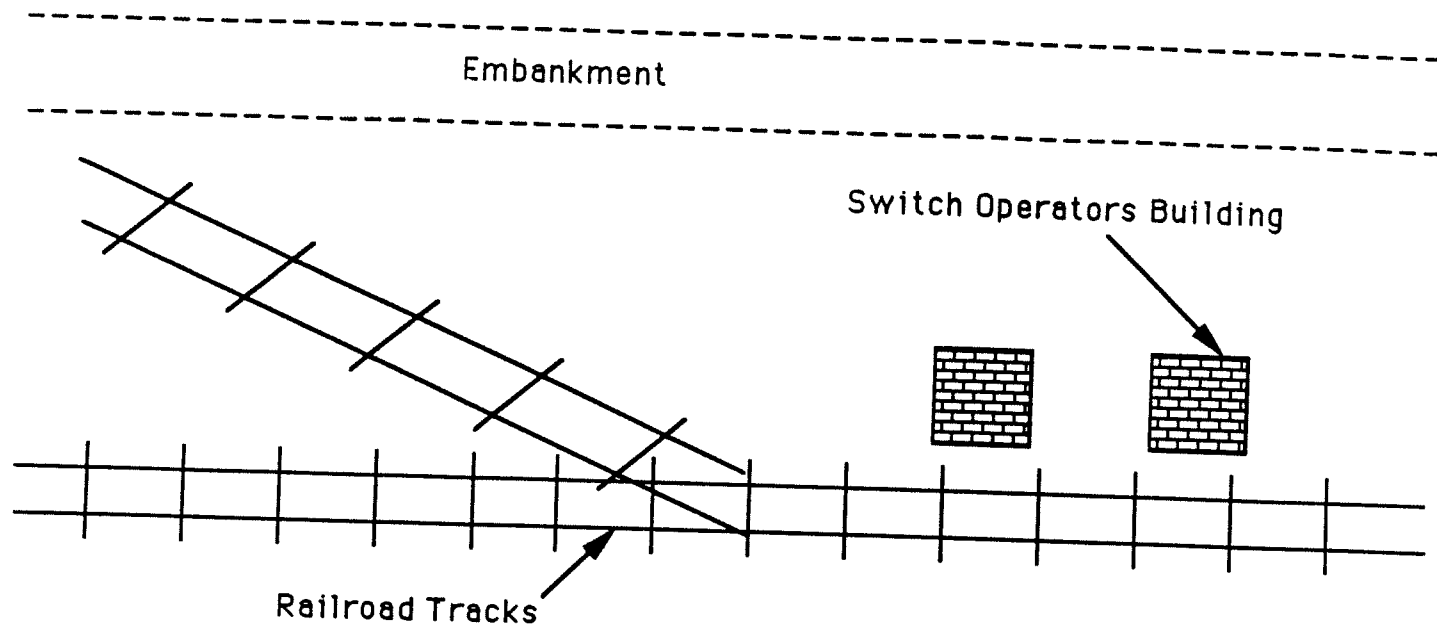
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Attachment #2

PESB 1-46

DONORA STATION - ABANDONED DRUMS



Area where 9 abandoned 55-gallon drums and several hundred beer cans and bottles were discovered
 Approximate site co-ordinates: N28800 , E 81000

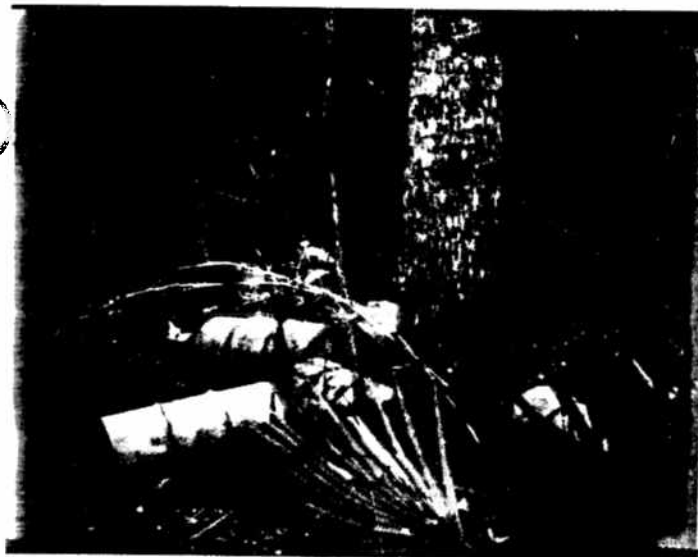
Drawing is not to scale

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Site Services Engineering
 Environmental & Chemical Systems
 Engineer: Martin Davis
 4-20-92

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ABANDONED DRUGS - CSX EIGHT OF MAY
DONORA STATION
MARCH 26, 1992

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Key Words:

Drums
G-Area
Samples
Kerosene
Railroad

SSER-200

APRIL 20, 1992

DONORA STATION ABANDONED DRUMS SAMPLE ANALYSIS (U)

DISTRIBUTION:

T. F. Thome, 777-10A
T. H. Hicks, 703-46A
C. A. Amacher, 742-A
H. S. Willis, 777-10A
D. L. Booth, 777-10A
G. Wisner, 777-10A
D. S. Simpson, 722-A
J. E. Black, 777-10A
A. B. Edenfield, 777-10A
T. A. Bittler, 722-A
S. E. Smith, 724-A
J. Kirby, 706-G
M. A. Davis, 777-19A
File, 777-10A
PRD File, 703-A

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April 20, 1992
SSER-200

Page 1 of 2
SSD-SUD-926912

TO: TRACI BITTLER, 722-A
CSWE

FROM: MARTIN DAVIS, 777-19A *MD*
Site Services Engineering

SAMPLE ANALYSIS

PROJECT NUMBERS: PESB 2-46

file DONORA STATION ABANDONED DRUMS SAMPLE ANALYSIS (U)

Introduction:

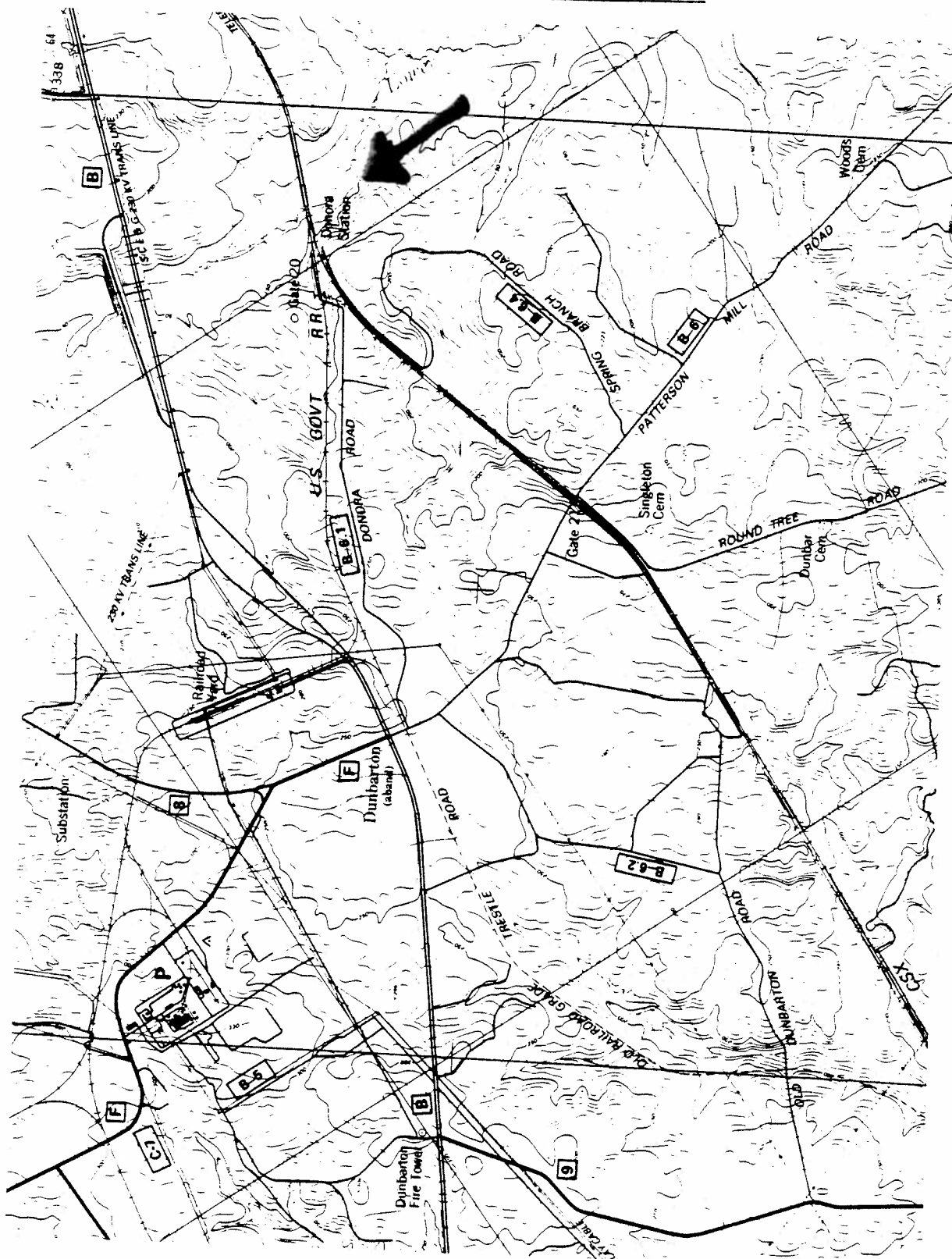
Nine abandoned 55- gallon drums were discovered on March 27, 1992 adjacent to the CSX railroad right-of-way Donora station. This site is located in Barnwell county, East of gate 21 (see attachment #1). The drums were found at the bottom of the railroad embankment in close proximity to the switch station used to transfer trains from the CSX line to the Savannah River Site (see attachment #2). Based on a 1975 calender found inside the operators building, the drums are believed to have been abandoned prior to 1975. The drums, along with several hundred empty beer cans, were evidently rolled over the side of the embankment and abandoned in the woods. The drums were removed by CSWE and relocated to 712-G for content analysis and final disposition determination. The drums are believed to contain water and / or kerosene. Samples were collected by the site Waste Analysis Group (WAG) and submitted to SRL for analysis of Radiation, Flash Point and Gas Chromatography / Mass Spectrometry (GC-MS) (fingerprint analysis). An estimate of less then 55 gallons of total liquids is believed to be present in the nine drums.

Sampling Notes:

Samples were collected on 4-2-92; WAG job #152. All nine drums were sampled. Each layer in the drum was sampled and identified by the project number PESB 2-46 along with the drum number and where multiple layers existed, a "T" or "B" for top and bottom layer. Multiple layers were present in drums number: 3, 4, 5, 7 & 8. Leakage from the drums was contained in the over pack drums used. Sample collection required the tipping of several of the drums as the liquid layers present were too shallow to collect; hence, the layer depth for these drums was not determined. Approximate depth of the liquid layers present in the drums are listed below("*" indicates no information on the layer depth):

Drum #	1	2	3T	3B	4T	4B	5T	5B	6	7T	7B	8T	8B	9
Depth Inches:	< 2	11.5	*	*	3	*	5	*	<1	2	<2	1.5	*	3

Site Map Location of Donora Station



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Summary of Results:

SRL has conducted a screening analysis of the liquid samples sent. Two types of liquids were analyzed: an aqueous and an organic. All of the samples were similar in their respective class type. A screening analysis for Kerosene was conducted on the samples. All the organics were very similar in their nature; all were indicative of Kerosene. Further analysis was conducted on one sample at this time and Kerosene was confirmed. The aqueous samples have trace amounts of Kerosene present. All of the samples have flash points in excess of 140 degrees Fahrenheit. Samples are not a radiation hazard. Results are summarized below for Flash Point and Radiation scan (a < sign indicates the lower detection limit of the test was reached):

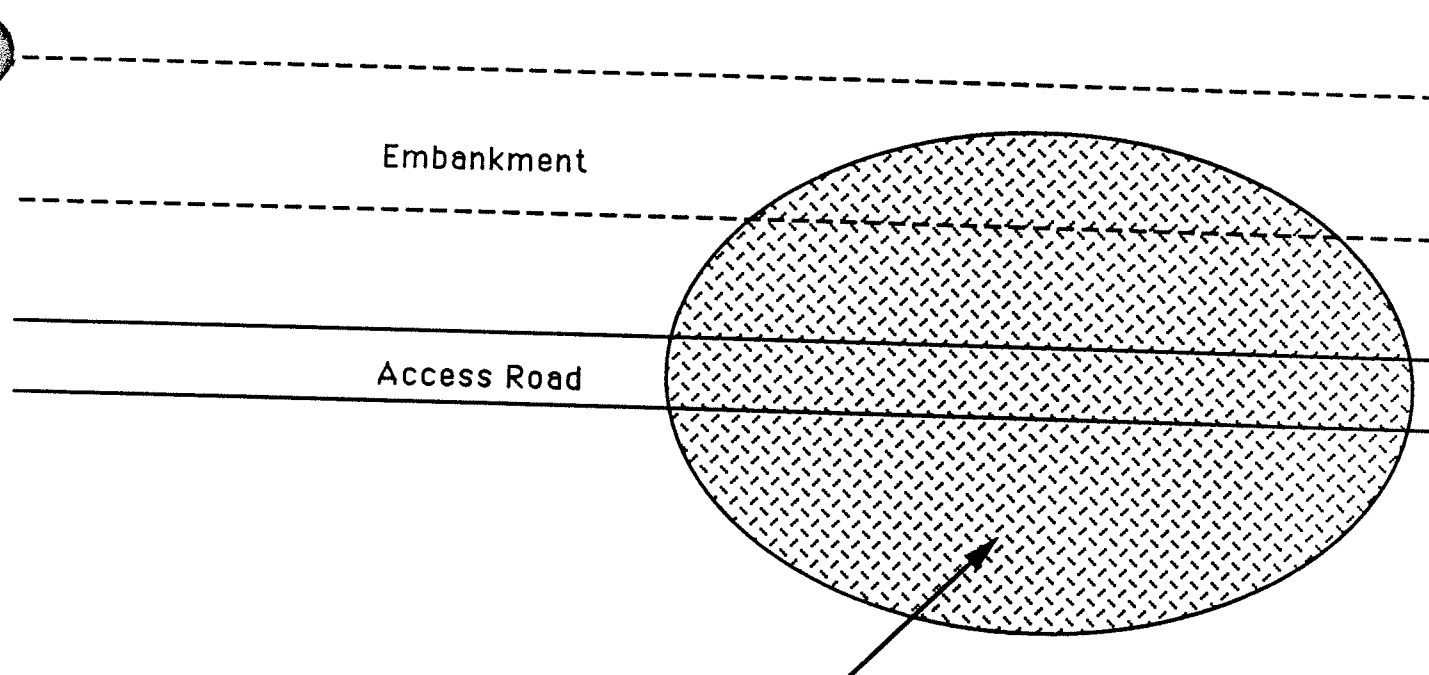
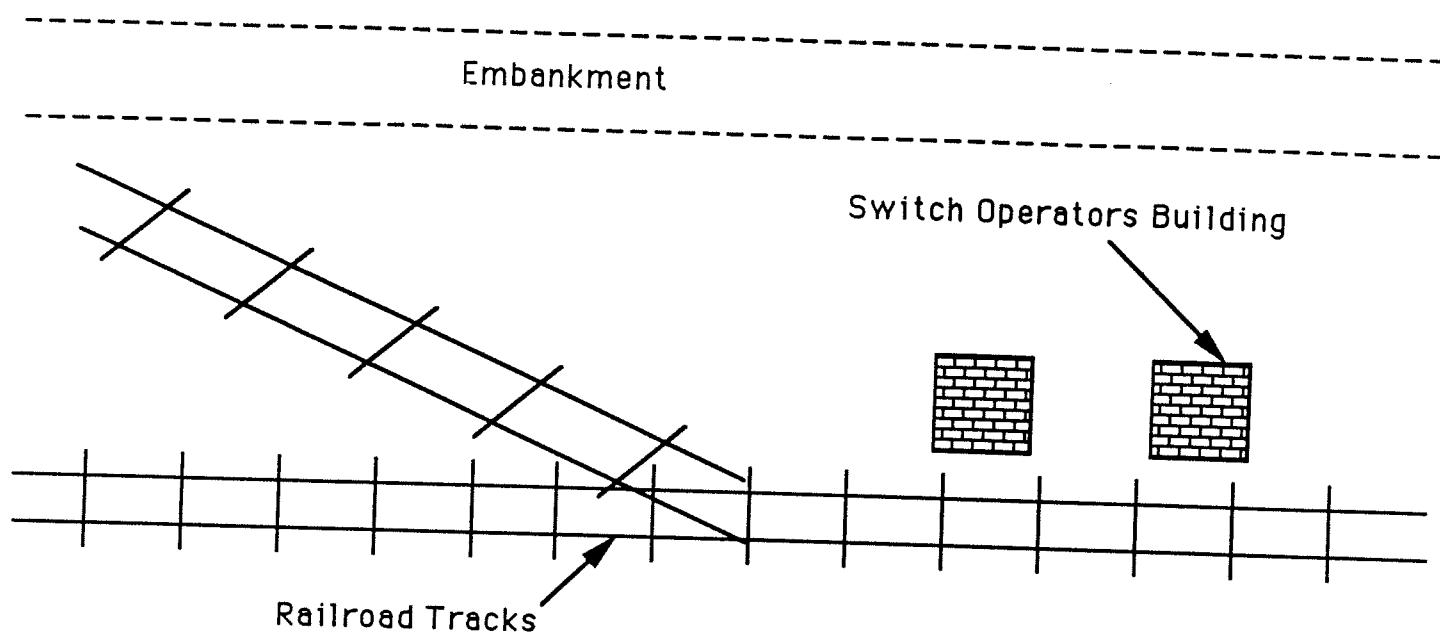
<u>Drum #</u>	<u>Flash Point</u> <u>°F</u>	<u>Alpha</u> <u>D/Min/mL</u>	<u>Beta</u> <u>D/Min/mL</u>	<u>Tritium</u> <u>x10⁻⁵UCi/mL</u>
1	199	<6	4.4	<2.25
2	172	<6	11.6	<2.25
3T	158	<6	13.2	<2.25
3B	201	<6	8.0	<2.25
4T	158	<6	7.2	0.378
4B	160	<6	<33	<2.25
5T	153	<6	4.8	<2.25
5B	>212	<6	6.8	<2.25
6	174	<6	15.6	<2.25
7T	156	<6	25.2	<2.25
7B	205	<6	15.2	<2.25
8T	158	<6	13.6	<2.25
8B	174	<6	<33	<2.25
9	156	<6	9.6	<2.25

Conclusions:

Based on sampling results to date, the organic phase found in the drums is Kerosene. All of the Flash Points reported are >140°F, the material is not an Ignitable EPA hazard. The material is not a radiation hazard. SRL Analytical Development Section is conducting additional analyses to confirm that the contents of the drums is Kerosene. A follow up report will be issued when the analyses are completed.

Attachments:

- 1) Site Map Location of Donora Station
- 2) PESB 1-46, Donora Station Abandoned Drums Sketch
- 3) SRS Waste Analysis Group Chain of Custody forms.
- 4) SRL Radiation and Flash Point Report
- 5) SRTC-ADS-92-0114 Unknown drum - bulk characterization

Attachment #2**PESB 1-46**
DONORA STATION - ABANDONED DRUMS

Area where 9 abandoned 55-gallon drums and several
hundred beer cans and bottles were discovered
Approximate site co-ordinates: N28800 , E 81000

Drawing is not to scale

Site Services Engineering
Environmental & Chemical Systems
Engineer: Martin Davis
4-20-92

2

1

JOB # 152

CHAIN-OF-CUSTODY (U)

(REV. 0, 1-29-92)

Shipping Container TID #

Customer: MARTIN DAVIS

Address: 777-10A

Comments:

Westinghouse Savannah River Company, Savannah River Site
Analytical Laboratories, Waste Analytic Group
Allen, South Carolina

Sample Destination: SRL

SAMPLE ANALYSIS REQUESTED

Matrix Key:
S - Soil
SO - Solid
SL - Sludge
O - Organic
A - Aqueous

WASTE ANALYSIS GROUP



SAVANNAH RIVER SITE

REMARKS

NUMBER OF CONTAINERS	BTEX	DENSITY	FLASH POINT	HERBICIDES	PESTICIDES	PCB'S	pH	% MOISTURE	RAD SCREEN	SOLIDS	TOC	TPH	TCLP	TCLP METALS	TOTAL METALS	TOTAL HALOGENS	VOA	GC. Fingerprint
1																		

WASTE ANALYSIS GROUP

REMARKS

SAMPLE I.D.	TID NUMBER	COLLECTION DATE	TIME	MATRIX	NUMBER OF CONTAINERS	BTEX	DENSITY	FLASH POINT	HERBICIDES	PESTICIDES	PCB'S	pH	% MOISTURE	RAD SCREEN	SOLIDS	TOC	TPH	TCLP	TCLP METALS	TOTAL METALS	TOTAL HALOGENS	VOA	GC. Fingerprint
PESB-2-46-5B	2551	4/2/92	1150	0	1																		
PESB-2-46-5B	2550	4/2/92	1150	0	1																		
PESB-2-46-6	2542	4/2/92	1045	0	1																		
PESB-2-46-6	2541	4/2/92	1045	0	1																		
PESB-2-46-7T	2557	4/2/92	1215	0	1																		
PESB-2-46-7T	2556	4/2/92	1215	0	1																		
PESB-2-46-7B	2555	4/2/92	1215	0	1																		
PESB-2-46-7B	2554	4/2/92	1215	0	1																		
PESB-2-46-8T	2549	4/2/92	1115	0	1																		
PESB-2-46-8T	2548	4/2/92	1115	0	1																		
PESB-2-46-8B	2545	4/2/92	1115	0	1																		
PESB-2-46-8B	2546	4/2/92	1115	0	1																		
PESB-2-46-9	2544	4/2/92	1105	0	1																		
PESB-2-46-9	2543	4/2/92	1105	0	1																		

1. Requisitioned by: G.D. FORTER Date / Time: 4/12/92 Received by: JANE STINE Date / Time: / /

2. Requisitioned by: Date / Time: / / Received by: Date / Time: / /

3. Requisitioned by: Date / Time: / / Received by: Date / Time: / /

4. Requisitioned by: Date / Time: / / Received by: Date / Time: / /

5. Requisitioned by: Date / Time: / / Received by: Date / Time: / /

6. Requisitioned by: Date / Time: / / Received by: Date / Time: / /

Record A: Date: Time: Record Validated by: Time:

Date: 20-Apr-1992 10:06 am

Sample Id: 200074706
 User SampleId: PFSBZ-46-1 DAVIS 4/3/92
 Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
 Material Name: LIQUID
 Material Type: SAMPLE
 MaterialGroup: SITE SERVICES
 Supervisor: HUGHES MR 724A
 Submitter: DAVIS M
 Requester: DAVIS M
 Priority: 1
 Sample Status: ACTIVE
 Condition: ONLINE
 Cond Level: (none)
 User Stamp: DEWESSE BM
 Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300166985
 Instrument Class: (none)
 Instrument Name: (none)
 Analyst: BROWN SB
 Supervisor: RHINEHART RH
 Operation: FLASH POINT
 Method: FLASH POINT
 Due Date: 17-Apr-1992 10:58 am
 Done Date: 13-Apr-1992 12:35 pm

Task Repetition: 1
 Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
 FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER
 199
 33
 Inl Ind Ins Status Condition
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300166986
 Instrument Class: LIQ SCINT
 Instrument Name: TRICARB
 Analyst: PARKMAN CR
 Supervisor: LEYBA JD
 Operation: RAD SCREEN
 Method: RAD SCREEN
 Due Date: 17-Apr-1992 10:58 am
 Done Date: 08-Apr-1992 10:49 am

Task Repetition: 1
 Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT
 BETA/TRITIUM COUNT - COMMENT - TEXT
 RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER
 TRITIUM - COMMENT - TEXT
 < 6 D/M/ML
 4.4 D/M/ML
 PG 141
 < 2.25E-5UCI/ML
 Inl Ind Ins Status Condition
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300166987
 Instrument Class: PIPETTE
 Instrument Name: DILUTION
 Analyst: WIDENER PR
 Supervisor: LEYBA JD
 Operation: RAD SCREEN PREP
 Method: RAD SCREEN
 Due Date: 17-Apr-1992 10:58 am
 Done Date: 06-Apr-1992 07:32 am

Task Repetition: 1
 Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
 RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER
 66
 NB107 PG66
 Inl Ind Ins Status Condition
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167045
Instrument Class: GC
Instrument Name: HEWLETT/PAKARD
Analyst: GAINES SC
Supervisor: BUCHANAN_BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

Result Value	Inl	Ind	Ins	Status	Condition
(none)				EMPTY	ONLINE

Sample Id: 200074707

User SampleId: PESB2-46-2 DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
Material Group: SITE SERVICES

Supervisor: HUGHES MR 724A
Submitter: DAVIS M
Requester: DAVIS M
Priority: 1

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEWESE BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300166988
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN SB
Supervisor: RHINEHART_RH

Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:35 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER

Result Value	Inl	Ind	Ins	Status	Condition
172					
33					
	N/A	N/A	N/A	COMPLETE	APPROVED
	N/A	N/A	N/A	COMPLETE	APPROVED

Task Id Number: 300166990
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: LEYBA_JD

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:32 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT

RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

Result Value	Inl	Ind	Ins	Status	Condition
(none)					
NB107 Pg66					
	N/A	N/A	N/A	EMPTY	APPROVED
	N/A	N/A	N/A	COMPLETE	APPROVED

Task Number: 300167046
Instrument Class: GC

Operation: GC
Condition: GC

Instrument Name: HEWLITPAKARD
Site: GAINES SC
Supervisor: BUCHANAN BR

Date: 24-Apr-1992 01:15 pm
(none)

Page 20

Task Repetition: 1
Task Version: 1

Component - Measure - Units

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

Result Value Inl Ind Ins Status Condition
(none) EMPTY ONLINE

Task Id Number: 300168612
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: FULMER GT
Supervisor: HUGHES MR 724A

Operation: BETA LIQ SCINT
Method: TRITIUM
Due Date: 04-May-1992 08:53 am
Done Date: 20-Apr-1992 08:59 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

BETA LIQ SCINT - COMMENTS - TEXT
BETA LIQ SCINT COMMENTS - WSRC-NB-91-18 - PAGE NUMBER
SR90 - COMMENTS - D/M/ML
TC99 - COMMENTS - D/M/ML
TRITIUM - ACTIVITY - UCI/ML

Result Value Inl Ind Ins Status Condition
(none) N/A N/A N/A COMPLETE APPROVED
PG 141 N/A N/A N/A COMPLETE APPROVED
(none) N/A N/A N/A COMPLETE APPROVED
(none) N/A N/A N/A COMPLETE APPROVED
<2.25E-5UCI/ML N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300168619
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: HUGHES MR 724A

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 04-May-1992 09:28 am
Done Date: 20-Apr-1992 09:35 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

Result Value Inl Ind Ins Status Condition
(none) N/A N/A N/A COMPLETE APPROVED
PG 141 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300168620
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN CR
Supervisor: HUGHES MR 724A

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 04-May-1992 09:28 am
Done Date: 20-Apr-1992 09:35 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT
BETA/TRITIUM COUNT - COMMENT - TEXT
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER

Result Value Inl Ind Ins Status Condition
(none) N/A N/A N/A COMPLETE APPROVED
PG 141 N/A N/A N/A COMPLETE APPROVED

Sample ID: 200074708

User SampleID: PESB7-46-T DAVIS 4/3/92
 Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
 Material Name: LIQUID
 Material Type: SAMPLE
 MaterialGroup: SITE SERVICES

Supervisor: HUGHES MR 724A
 Submitter: DAVIS M
 Requester: DAVIS M
 Priority: 1

Sample Status: ACTIVE
 Condition: ONLINE
 Cond Level: (none)
 User Stamp: DEWESE BM
 Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300166991
 Instrument Class: (none)
 Instrument Name: (none)
 Analyst: BROWN SB
 Supervisor: RHINEHART RH

Operation: FLASH POINT
 Method: FLASH POINT
 Due Date: 17-Apr-1992 10:58 am
 Done Date: 13-Apr-1992 12:35 pm

Task Repetition: 1
 Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
 FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER

Result Value

158
33

Inl Ind Ins Status Condition
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300166992
 Instrument Class: LIQ SCINT
 Instrument Name: TRICARB
 Analyst: PARKMAN CR
 Supervisor: LEYBA JD

Operation: RAD SCREEN
 Method: RAD SCREEN
 Due Date: 17-Apr-1992 10:58 am
 Done Date: 13-Apr-1992 04:09 pm

Task Repetition: 1
 Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT
 BETA/TRITIUM COUNT - COMMENT - TEXT
 RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER
 TRITIUM - COMMENT - TEXT

Result Value

<6D/M/ML
 13.2D/M/ML
 PG 141
 <2.25E-50UCI/ML

Inl Ind Ins Status Condition
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300166993
 Instrument Class: PIPETTE
 Instrument Name: DILUTION
 Analyst: WIDENER PR
 Supervisor: LEYBA JD

Operation: RAD SCREEN PREP
 Method: RAD SCREEN
 Due Date: 17-Apr-1992 10:58 am
 Done Date: 06-Apr-1992 07:32 am

Task Repetition: 1
 Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
 RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

Result Value

(none)

PG 66

Inl Ind Ins Status Condition
 N/A N/A N/A COMPLETE APPROVED
 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167047
Instrument Class: GC
Instrument Name: HEWLITPAKARD
Analyst: GAINES_SC
Supervisor: BUCHANAN_BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units
Result Value
Inl Ind Ins Status Condition
GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION (none) EMPTY ONLINE

Sample Id: 200074709
User SampleId: PESB2-46-3B DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
Material Group: SITE SERVICES
Supervisor: HUGHES MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1
Sample Status: ACTIVE
Condition: (none)
Cond Level: (none)
User Stamp: DEWESE_BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300166994
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN_SB
Supervisor: RHINEHART_RH
Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:35 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units
Result Value
Inl Ind Ins Status Condition
FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT 201 N/A N/A N/A COMPLETE APPROVED
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER 33 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300166995
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN_CR
Supervisor: LEXBA_JD
Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 04:09 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units
Result Value
Inl Ind Ins Status Condition
ALPHA COUNT - COMMENT - TEXT <6D/M/ML N/A N/A N/A COMPLETE APPROVED
BETA/TRITIUM COUNT - COMMENT - TEXT 8.0D/M/ML N/A N/A N/A COMPLETE APPROVED
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER PG 141 N/A N/A N/A COMPLETE APPROVED
TRITIUM - COMMENT - TEXT <2.25E-5UCI/ML N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300166996

Operation: RAD SCREEN PREP

Instrument Name: DILUTION
Analyst: WIDENER_PR
Supervisor: LEYBA_JD

Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:32 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - MSRC-NOTEBOOK - PAGE NUMBER

Result Value
(none)
NB107 PG 66
Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167048
Instrument Class: GC
Instrument Name: HEWLITPAKARD
Analyst: GAINES_SC
Supervisor: BUCHANAN_BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

Result Value
(none)
Inl Ind Ins Status Condition
EMPTY ONLINE

Sample Id: 200074710
User SampleId: PESB2-46-4T DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
MaterialGroup: SITE SERVICES

Supervisor: HUGHES MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEWESE BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300166997
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN_SB
Supervisor: RHINEHART_RH

Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:35 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
FLASH POINT NOTEBOOK - MSRC-NB-90-204 - PAGE NUMBER

Result Value
158
33
Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300166998
Instrument Class: LIQ SCINT
Instrument Name: PRICORP
Analyst: CANNAN_C
Supervisor: LEYBA_JD

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 04:09 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units		Result Value		Inl	Ind	Ins	Status	Condition
ALPHA COUNT - COMMENT - TEXT		<6D/M/ML		N/A	N/A	N/A	COMPLETE	APPROVED
BETA/TRITIUM COUNT - COMMENT - TEXT		7.2D/M/ML		N/A	N/A	N/A	COMPLETE	APPROVED
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER		PG 141		N/A	N/A	N/A	COMPLETE	APPROVED
TRITIUM - COMMENT - TEXT		3.78E-6UCI/ML		N/A	N/A	N/A	COMPLETE	APPROVED

Task Id Number: 300166999
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: LEYBA_JD
Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:32 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units		Result Value		Inl	Ind	Ins	Status	Condition
COMMENTS - COMMENT - TEXT		(none)		N/A	N/A	N/A	EMPTY	APPROVED
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER		NB107 PG 66		N/A	N/A	N/A	COMPLETE	APPROVED

Task Id Number: 300167049
Instrument Class: GC
Instrument Name: HEWLETPAKARD
Analyst: GAINES SC
Supervisor: BUCHANAN_BR
Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units		Result Value		Inl	Ind	Ins	Status	Condition
GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION		(none)					EMPTY	ONLINE

Sample Id: 200074711
User Sample Id: PESB2-46-4B DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
Material Group: SITE SERVICES
Supervisor: HUGHES MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1
Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEWEESE_BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300167000
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN_SB
Supervisor: RHINEHART_RH
Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:35 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER

Result Value

160
33

Inl Ind Ins Status Condition

N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167002
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: LEXBA_JD

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:32 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

Result Value

(none)
NB107 PG 66Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167050
Instrument Class: GC
Instrument Name: HEWLITPAKARD
Analyst: GAINES SC
Supervisor: BUCHANAN_BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

Result Value

(none)

Inl Ind Ins Status Condition
EMPTY ONLINE

Task Id Number: 300168613
Instrument Class: PIPETTE
Instrument Name: DILUTION FACTOR
Analyst: WIDENER PR
Supervisor: HUGHES_MR 724A

Operation: TRITIUM PREP
Method: TRITIUM
Due Date: 04-May-1992 09:04 am
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

TRITIUM - DILUTION - Y/N

Result Value

(none)

Inl Ind Ins Status Condition
EMPTY ONLINE

Task Id Number: 300168621
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 04-May-1992 09:33 am
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units
Result Value
Inl Ind Ins Status Condition
COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER
(none)
(none)
EMPTY
ONLINE

Task Id Number: 300168622
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN CR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 04-May-1992 09:33 am
Done Date: 20-Apr-1992 09:36 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

Result Value

Inl Ind Ins Status

Condition

ALPHA COUNT - COMMENT - TEXT
BETA/TRITIUM COUNT - COMMENT - TEXT
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER
TRITIUM - COMMENT - TEXT

< 6 D/M/ML
< 33 D/M/ML
PG 141
< 2.25E-5UCI/ML

N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Sample Id: 200074712
User SampleId: PESB2-46-5T DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
MaterialGroup: SITE SERVICES

Supervisor: HUGHES MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEMESEE BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300167003
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN_SB
Supervisor: RHINEHART_RH

Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:35 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

Result Value

Inl Ind Ins Status

Condition

NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER

153
33

N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167005
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: LEYBA_JD

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:32 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

Result Value

Inl Ind Ins Status

Condition

(none)
NB107 PG 66
Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Result Value
Inl Ind Ins Status Condition
EMPTY ONLINE

Operation: TRITIUM PREP
Method: TRITIUM
Due Date: 04-May-1992 09:09 am
Done Date: (none)

Result Value
Inl Ind Ins Status Condition
EMPTY ONLINE

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 04-May-1992 09:21 am
Done Date: (none)

Result Value
Inl Ind Ins Status Condition
EMPTY ONLINE

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 04-May-1992 09:21 am
Done Date: 20-Apr-1992 09:37 am

Result Value
Inl Ind Ins Status Condition

ADDITIONAL COUNT - COMMENT - TEXT
BE TRITIUM COUNT - COMMENT - TEXT
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER
TRITIUM - COMMENT - TEXT

8D/M/ML
PG 141
<2.25E-5UCI/ML

N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Sample Id: 200074713
User SampleId: PESB2-46-5B DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
MaterialGroup: SITE SERVICES

Supervisor: HUGHES MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEWESSE BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300167006
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN SB
Supervisor: RHINEHART_RH

Operation:
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:35 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER

Result Value

> 212
33

Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167008
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENR_PR
Supervisor: LEYBA_JD

Operation:
Method: RAD SCREEN PREP
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:33 am

RAD SCREEN PREP

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

Result Value

(none)
MB107 PG 66

Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167052
Instrument Class: GC
Instrument Name: HEWLITPAKARD
Analyst: GAINNEY SC
Supervisor: BUCHANAN_BR

Operation:
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

(none)

Result Value

Inl Ind Ins Status Condition
EMPTY ONLINE

Task Id Number: 300168641
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 04-May-1992 09:44 am
Done Date: 20-Apr-1992 09:47 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

Result Value

(none)

Pg 141

Inl Ind Ins Status

EMPTY
COMPLETE
APPROVED
APPROVED

Task Id Number: 300168642
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN CR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 04-May-1992 09:44 am
Done Date: 20-Apr-1992 09:47 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT
BETA/TRITIUM COUNT - COMMENT - TEXT
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER
TRITIUM - COMMENT - TEXT

Result Value

< 6 D/M/ML
6.8 D/M/ML
Pg 141
< 2.25E-5UCI/ML

Inl Ind Ins Status

N/A N/A N/A COMPLETE
N/A N/A N/A COMPLETE
N/A N/A N/A COMPLETE
N/A COMPLETE
APPROVED
APPROVED
APPROVED

Task Id Number: 300168643
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 04-May-1992 09:45 am
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

Result Value

(none)
(none)

Inl Ind Ins Status

EMPTY
EMPTY
ONLINE
ONLINE

Task Id Number: 300168644
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN CR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 04-May-1992 09:45 am
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units Result Value Inl Ind Ins Status Condition
ALPHA COUNT - COMMENT - TEXT (none)
BETA/TRITIUM COUNT - COMMENT - TEXT (none)
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER (none)
TRITIUM - COMMENT - TEXT (none)

Sample Id: 200074714
User SampleId: PESB2-46-6 DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
MaterialGroup: SITE SERVICES
Supervisor: HUGHES MR 724A
Submitter: DAVIS M
Requester: DAVIS M
Priority: 1
Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEMEESE BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300167009
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN SB
Supervisor: RHINEHART RH
Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:36 pm

Task Repetition: 1
Task Version: 1
Component - Measure - Units Result Value Inl Ind Ins Status Condition
FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT 174 N/A N/A N/A COMPLETE APPROVED
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER 33 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167011
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: LEYBA JD
Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:33 am

Task Repetition: 1
Task Version: 1
Component - Measure - Units Result Value Inl Ind Ins Status Condition
COMMENTS - COMMENT - TEXT (none)
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER NB107 PG 66 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167053
Instrument Class: GC
Instrument Name: HEWLITPAKARD
Analyst: GAINNEY SC
Supervisor: BUCHANAN BR
Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1
Component - Measure - Units Result Value Inl Ind Ins Status Condition

Task Id Number: 300168647
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 04-May-1992 09:53 am
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

Result Value (none)
Inl Ind Ins Status Condition
EMPTY ONLINE
EMPTY ONLINE

Task Id Number: 300168648
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN_CR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 04-May-1992 09:53 am
Done Date: 20-Apr-1992 10:00 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT
BETA/TRITIUM COUNT - COMMENT - TEXT
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER
TRITIUM - COMMENT - TEXT

Result Value < 6 D/M/ML
15.6D/M/ML
PG 141
< 2.25E-5UCI/ML
Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Sample Id: 200074715
User SampleId: PESB2-46-T DAVIS 4/3/92

Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
MaterialGroup: SITE SERVICES

Supervisor: HUGHES_MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEWESE BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300167012
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN_SB
Supervisor: RHINEHART_RH

Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:36 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER

Result Value 156
Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167014
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER_PR
Supervisor: LEXBA_JD

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:33 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

Result Value Inl Ind Ins Status Condition

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

(none)
NB107 Pg 66 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167054
Instrument Class: GC
Instrument Name: HEWLETTPAKARD
Analyst: GAINEX_SC
Supervisor: BUCHANAN_BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

Result Value Inl Ind Ins Status Condition

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

(none)
EMPTY ONLINE

Task Id Number: 300168649
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER_PR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 04-May-1992 10:03 am
Done Date: 20-Apr-1992 10:05 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

Result Value Inl Ind Ins Status Condition

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

(none)
Pg 141 N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300168650
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN_CR
Supervisor: HUGHES_MR 724A

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 04-May-1992 10:03 am
Done Date: 20-Apr-1992 10:05 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

Result Value Inl Ind Ins Status Condition

ALPHA COUNT - COMMENT - TEXT
BETA/TRITIUM COUNT - COMMENT - TEXT

< 6 D/M/ML
25.2 D/M/ML N/A N/A N/A COMPLETE APPROVED

Sample Id: 200074716
User SampleId: PESB2-46-7B DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
MaterialGroup: SITE SERVICES

Task Id Number: 300167015
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN SB
Supervisor: RHINEHART_RH

Task Repetition: 1
Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER

Task Id Number: 300167016
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN CR
Supervisor: LEYBA_JD

Task Repetition: 1
Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT
BETA/TRITIUM COUNT - COMMENT - TEXT
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER
TRITIUM - COMMENT - TEXT

Task Id Number: 300167017
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: LEYBA_JD

Task Repetition: 1
Task Version: 1

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK

WSRC-NOTEBOOK - PAGE NUMBER

Supervisor: HUGHES MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1

Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:36 pm

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEWESE BM
Time Stamp: 03-Apr-1992 10:58 am

Result Value

Inl	Ind	Ins	Status	Condition
205				
33	N/A	N/A	N/A COMPLETE	APPROVED

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 16-Apr-1992 02:10 pm

Result Value

Inl	Ind	Ins	Status	Condition
< 6 D/M/ML (LLD)				
15.2 D/M/ML	N/A	N/A	N/A COMPLETE	APPROVED
PG 141	N/A	N/A	N/A COMPLETE	APPROVED
<2.25E-5 UCI/ML (LLD)	N/A	N/A	N/A COMPLETE	APPROVED

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:33 am

Result Value

Inl	Ind	Ins	Status	Condition
N/A	N/A	N/A	COMPLETE	APPROVED

Id Number: 300167055
Instrument Class: GC
Instrument Name: HEMLITPAKARD
Analyst: GAINEX_SC
Supervisor: BUCHANAN_BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units
GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

Result Value
(none)
Inl Ind Ins Status Condition
EMPTY ONLINE

Sample Id: 200074717
User SampleId: PESB2-46-BT DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
MaterialGroup: SITE SERVICES

Supervisor: HUGHES MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEWESE BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300167018
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN SB
Supervisor: RHINEHART_RH

Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:36 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units
FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
FLASH POINT NOTEBOOK - WSRG-NB-90-204 - PAGE NUMBER

Result Value
158
33
Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167019
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN CR
Supervisor: LEYBA_JD

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 16-Apr-1992 02:10 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT
BETA/TRITIUM COUNT - COMMENT - TEXT
RAD SCREEN NOTEBOOK - WSRG-NB-90-200 - PAGE NUMBER
TRITIUM - COMMENT

Result Value
< 6 D/M/ML (LTD)
13.6 D/M/ML
PG 141
< 25E-5 MCT/ML (LTD)
Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED
N/A N/A N/A COMPLETE APPROVED

Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: LEYBA JD

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:33 am

Page 18 of 20

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT

RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

(none)
NB107 PG 66

Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167056
Instrument Class: GC
Instrument Name: HEWLETPAKARD
Analyst: GAINES SC
Supervisor: BUCHANAN BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

(none)

Inl Ind Ins Status Condition
EMPTY ONLINE

Sample Id: 200074718
User Sample Id: PESB2-46-8B DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
Material Group: SITE SERVICES

Supervisor: HUGHES MR 724A
Submitter: DAVIS M
Requester: DAVIS M
Priority: 1

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DOWESE BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300167021
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN SB
Supervisor: RHINEHART RH

Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:36 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER

Result Value
174
33
Inl Ind Ins Status Condition
N/A N/A N/A COMPLETE APPROVED

Task Id Number: 300167022
Instrument Class: TIO C/TMO
Instrument Name: LIQUID
Analyst: PARKMAN CK
Supervisor: LEYBA JD

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 16-Apr-1992 02:10 pm

Repetition: 1
Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT
BETA/TRITIUM COUNT - COMMENT - TEXT
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER
TRITIUM - COMMENT - TEXT

< 6 D/M/ML (LLD)
< 33 D/M/ML (LLD)
PG 141
< 2.25E-5 UCI/ML (LLD)

Inl	Ind	Ins	Status	Condition
N/A	N/A	N/A	COMPLETE	APPROVED
N/A	N/A	N/A	COMPLETE	APPROVED
N/A	N/A	N/A	COMPLETE	APPROVED
N/A	N/A	N/A	COMPLETE	APPROVED

Task Id Number: 300167023
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER PR
Supervisor: LEYBA_JD

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:33 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER

(none)
NB107 PG 66

Inl	Ind	Ins	Status	Condition
N/A	N/A	N/A	EMPTY	APPROVED
N/A	N/A	N/A	COMPLETE	APPROVED

Task Id Number: 300167057
Instrument Class: GC
Instrument Name: HEWLITPAKARD
Analyst: GAINEX SC
Supervisor: BUCHANAN_BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION

(none)

Inl	Ind	Ins	Status	Condition
			EMPTY	ONLINE

Sample Id: 200074719

User Sample Id: PESB2-46-9 DAVIS 4/3/92
Sample Type: POWER-LIQ-RAD SCREEN/FLASHPT
Material Name: LIQUID
Material Type: SAMPLE
Material Group: SITE SERVICES

Supervisor: HUGHES MR 724A
Submitter: DAVIS_M
Requester: DAVIS_M
Priority: 1

Sample Status: ACTIVE
Condition: ONLINE
Cond Level: (none)
User Stamp: DEWESE_BM
Time Stamp: 03-Apr-1992 10:58 am

Task Id Number: 300167024
Instrument Class: (none)
Instrument Name: (none)
Analyst: BROWN_SB
Supervisor: BROWN_SB

Operation: FLASH POINT
Method: FLASH POINT
Due Date: 17-Apr-1992 10:58 am
Done Date: 13-Apr-1992 12:36 pm

Task Repetition: 1

Page 20 of 20

Component - Measure - Units

FLASH POINT - FLASH POINT - DEGREES FAHRENHEIT				Result Value			
FLASH POINT NOTEBOOK - WSRC-NB-90-204 - PAGE NUMBER				Inl	Ind	Ins	Status
				N/A	N/A	N/A	COMPLETE
				N/A	N/A	N/A	COMPLETE
				APPROVED			

Task Id Number: 300167025
Instrument Class: LIQ SCINT
Instrument Name: TRICARB
Analyst: PARKMAN CR
Supervisor: LEYBA_JD

Operation: RAD SCREEN
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 16-Apr-1992 02:00 pm

Task Repetition: 1
Task Version: 1

Component - Measure - Units

ALPHA COUNT - COMMENT - TEXT				Result Value			
BETA/TRITIUM COUNT - COMMENT - TEXT				Inl	Ind	Ins	Status
RAD SCREEN NOTEBOOK - WSRC-NB-90-200 - PAGE NUMBER				N/A	N/A	N/A	COMPLETE
TRITIUM - COMMENT - TEXT				N/A	N/A	N/A	COMPLETE
				APPROVED			

Task Id Number: 300167026
Instrument Class: PIPETTE
Instrument Name: DILUTION
Analyst: WIDENER_PR
Supervisor: LEYBA_JD

Operation: RAD SCREEN PREP
Method: RAD SCREEN
Due Date: 17-Apr-1992 10:58 am
Done Date: 06-Apr-1992 07:33 am

Task Repetition: 1
Task Version: 1

Component - Measure - Units

COMMENTS - COMMENT - TEXT				Result Value			
RAD SCREEN PREP NOTEBOOK - WSRC-NOTEBOOK - PAGE NUMBER				Inl	Ind	Ins	Status
				(none)			
				NB107	PG	66	EMPTY
				APPROVED			

Task Id Number: 300167058
Instrument Class: GC
Instrument Name: HEWLITPAKARD
Analyst: GAINES SC
Supervisor: BUCHANAN_BR

Operation: GC
Method: GC
Due Date: 24-Apr-1992 01:15 pm
Done Date: (none)

Task Repetition: 1
Task Version: 1

Component - Measure - Units

GC RESULTS - ADP FILE/NOTEBOOK REF - LOCATION				Result Value			
				Inl	Ind	Ins	Status
							EMPTY
				ONLINE			

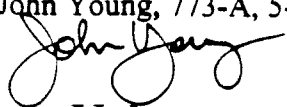
**Savannah River Technology Center
Analytical Development Section**

SRTC-ADS-92-0114

April 16, 1992

To: Martin Davis, 704-K8F

From: John Young, 773-A, 5-3565


Subject: Unknown drum - bulk characterization

We have completed the characterization of the material that was submitted under the NORA project. The sample was confirmed to be kerosine by the following bulk constituents:

<u>component</u>	<u>estimated value</u>
aliphatic hydrocarbons	17 wt%
aromatic hydrocarbons	58 wt%
cycloparaffins	13 wt%
boiling point range	150° - 250°C
weighted average boiling point	216°C

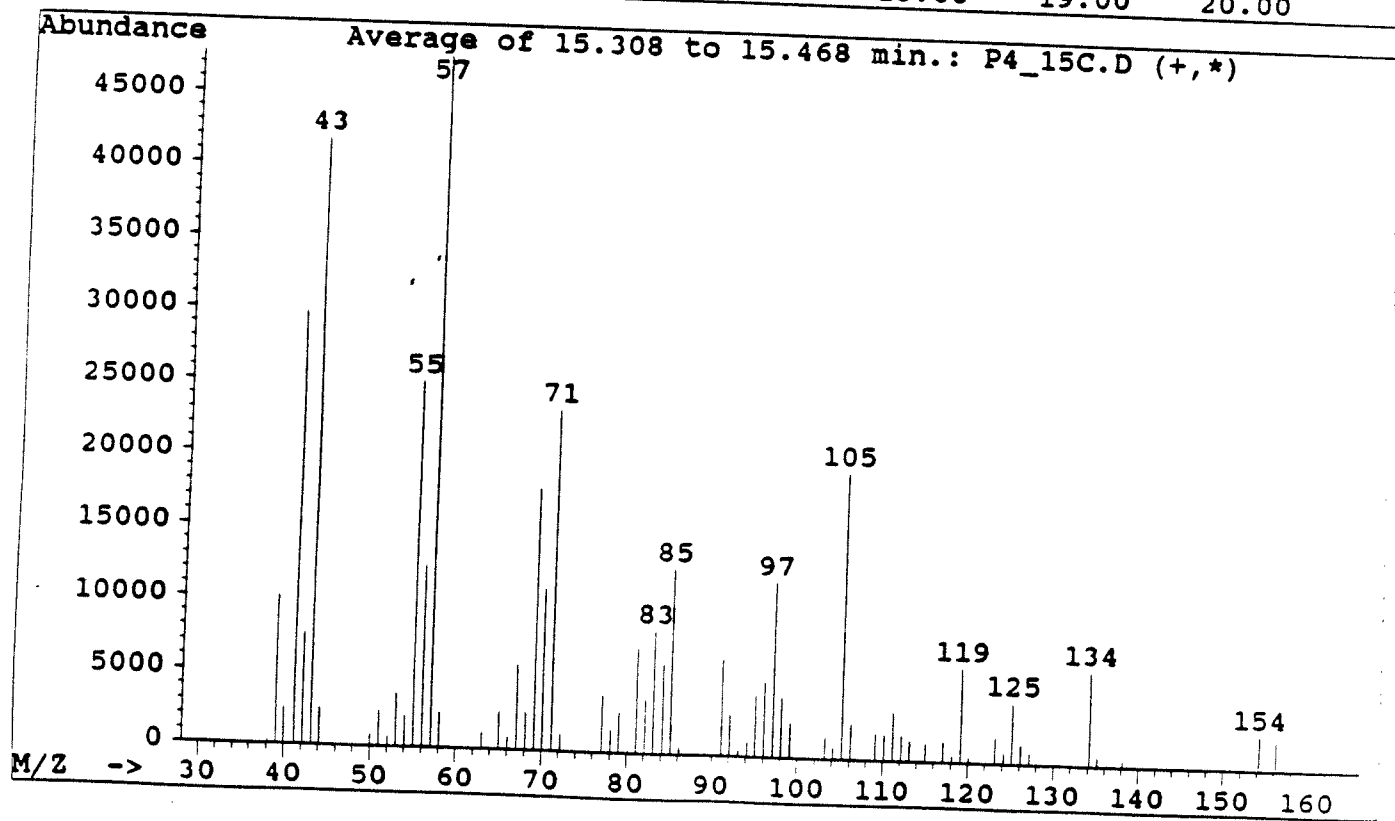
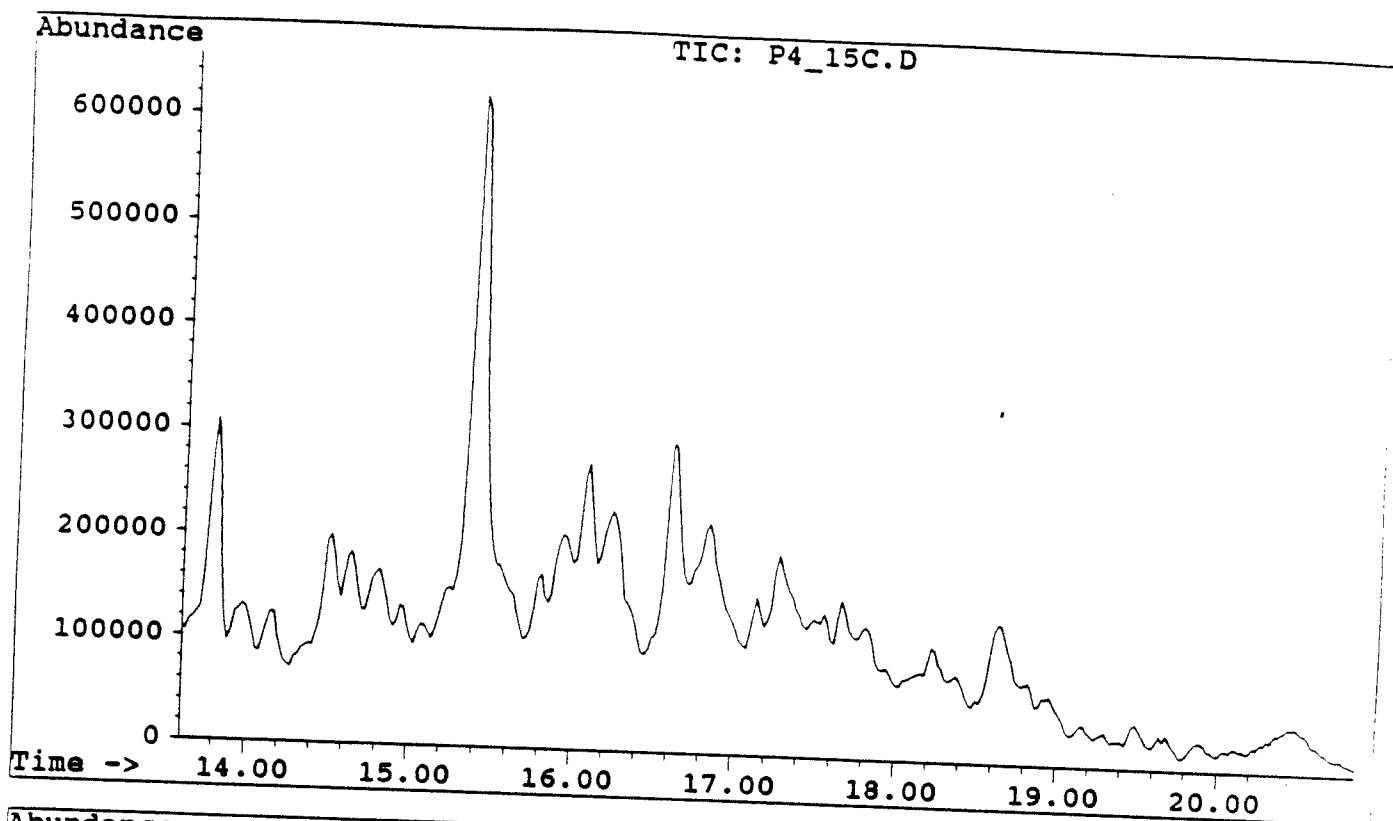
Analyses were performed using Gas Chromatography - Mass Spectrometry (GC-MS). The sample was diluted in methanol/water, and delivered to the GC-MS via a purge and trap sample concentrator. Separation was accomplished with a 30m x 0.53mm VOCOL capillary column with 3 µm film thickness. A glass jet separator was inline prior to the inlet into the mass spectrometer.

The boiling point range and average boiling point of the material was determined by peak weighted assessment of the chromatographic data using established boiling point / retention time correlations.

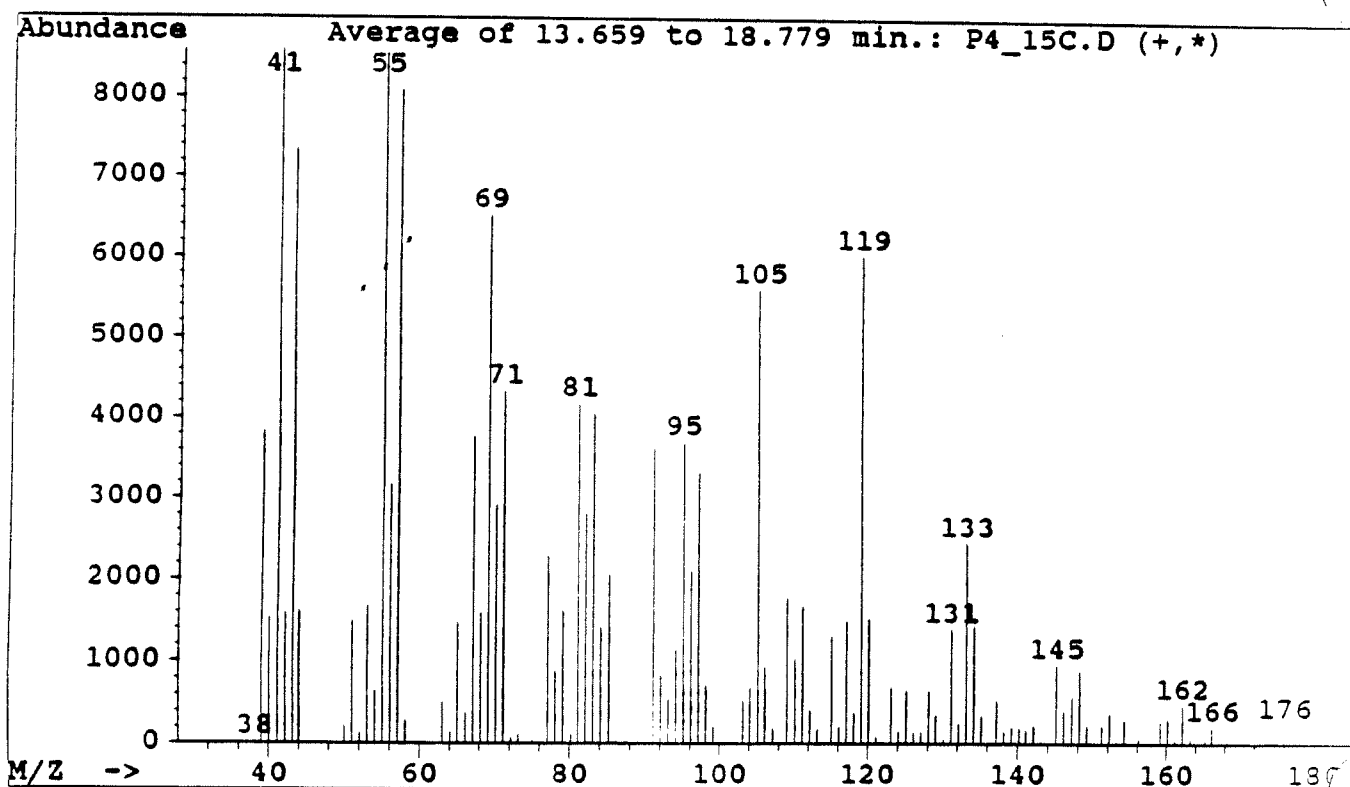
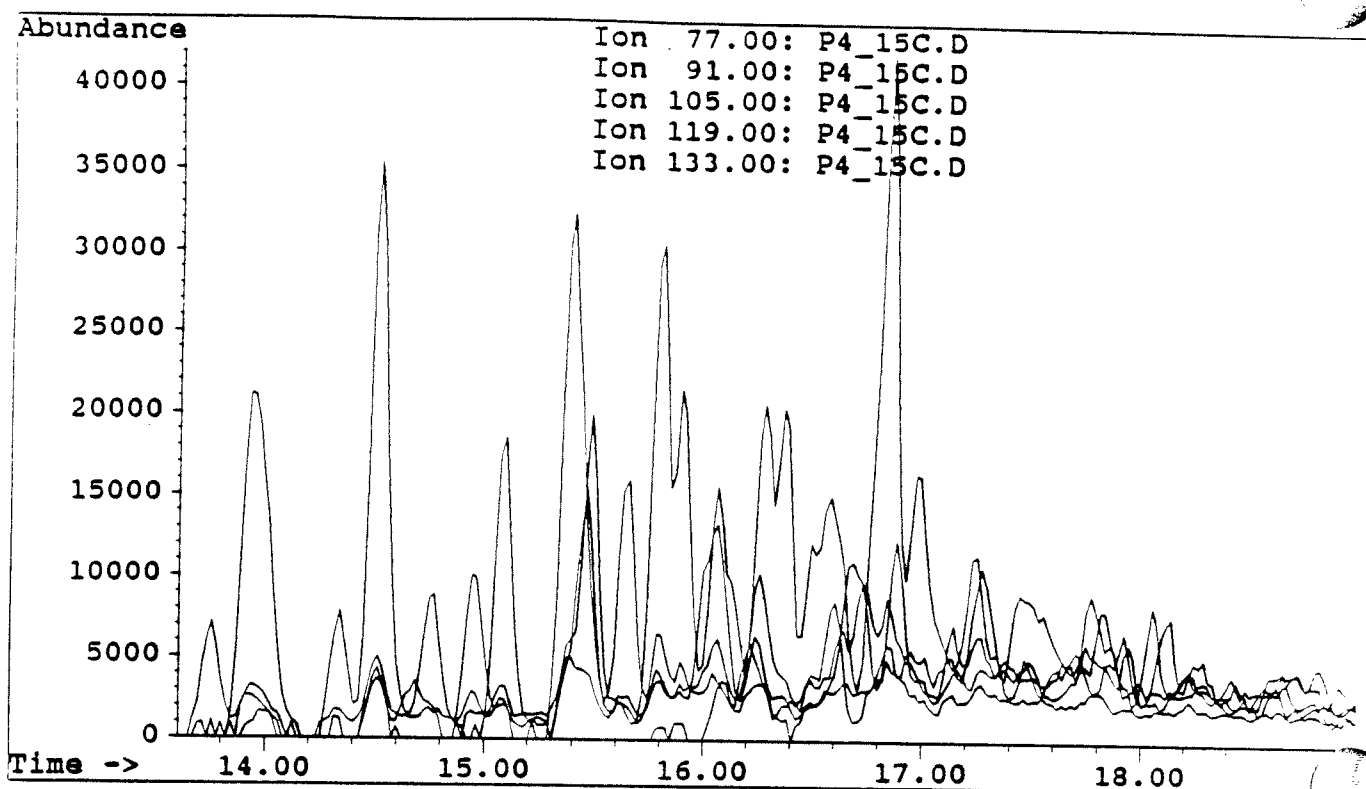
All GC-MS work was performed on a single representative sample from the batch of samples. Confirmatory analysis of all samples is being performed using conventional gas chromatography, and will be suitable to demonstrate that the material in the drums is nearly identical. These data will be provided to you when completed.

Chromatographic data is attached to illustrate the characteristic components' mass spectral ions.

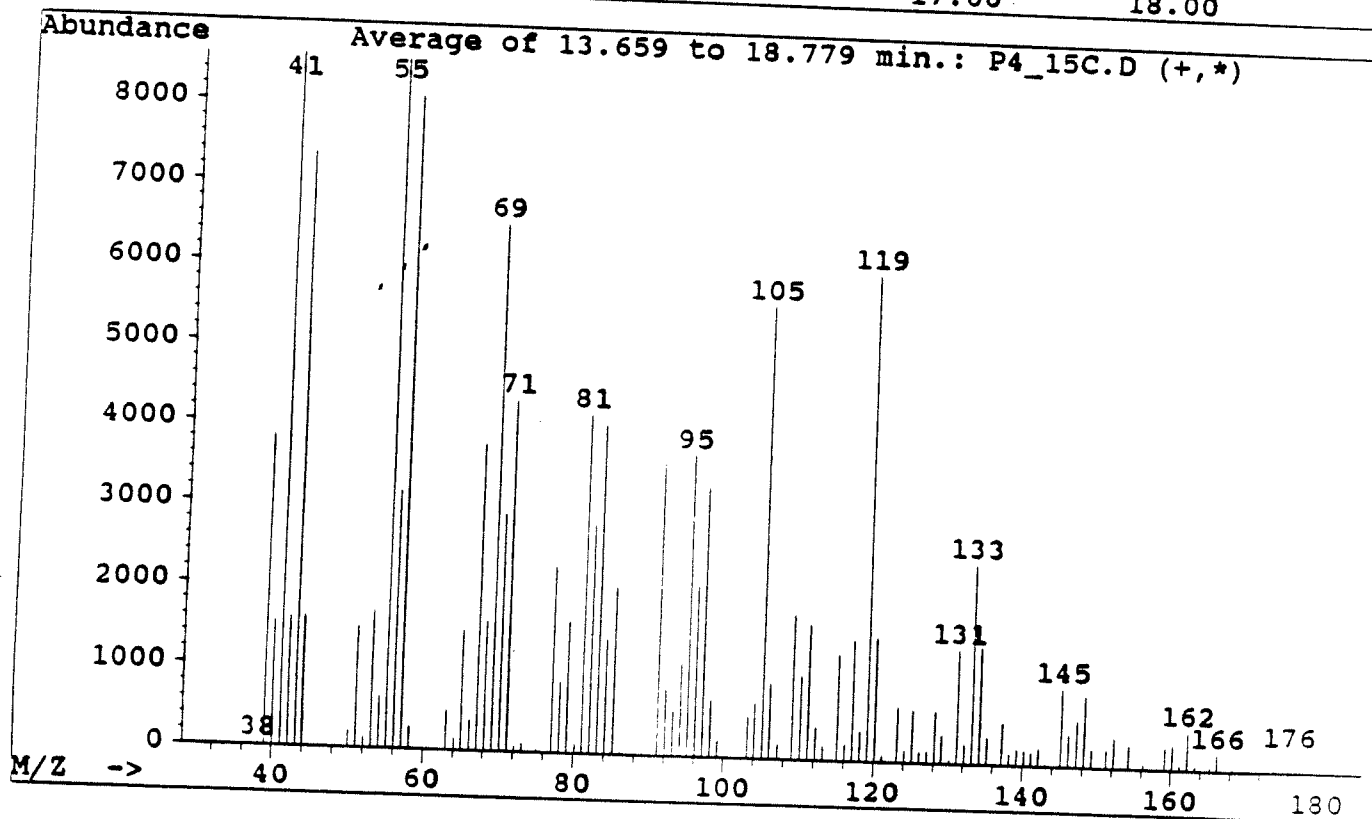
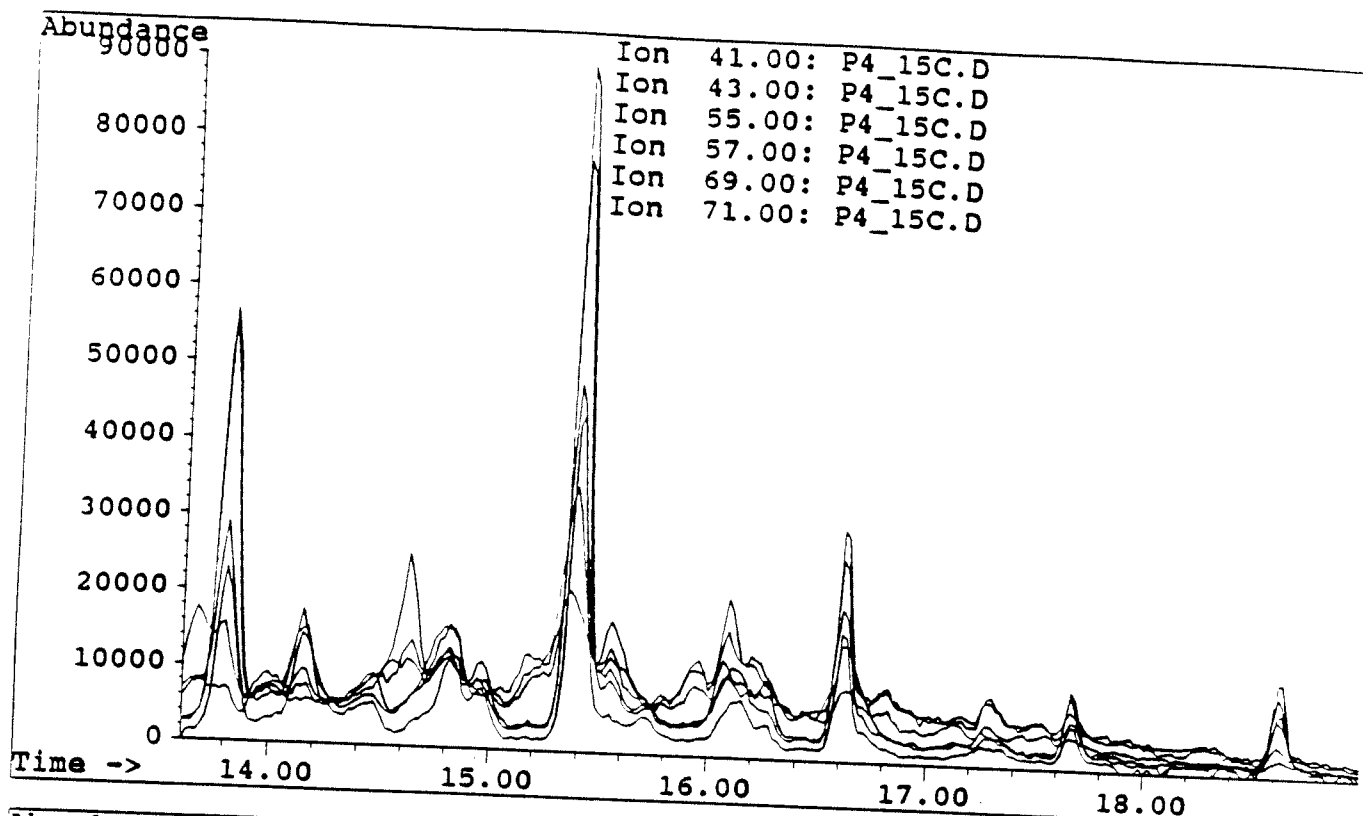
Total ion chromatogram of unknown NORA site material in BP=150 to 250°C range



Characteristic ions of aromatic hydrocarbons in unknown NORA site material (BP=150 to 250°C range)



Characteristic ions of aliphatic hydrocarbons in unknown NORA site material (BP=150 to 250°C range)





Key Words:

DRUMS
G-AREA
SAMPLES
KEROSENE
RAILROAD

SSER-207

MAY 15, 1992

DONORA STATION ABANDONED KEROSENE DRUMS SOIL SAMPLE ANALYSIS (U)

DISTRIBUTION:

T.H. HICKS, 703-46A
C.A. AMACHER, 742-A
H.S. WILLIS, 777-10A
D.S. SIMPSON, 722-A
J.E. BLACK, 777-10A
A.B. EDENFIELD, 777-10A
T.A. BITTLER, 722-A
J. KIRBY, 706-G
M.A. DAVIS, 777-19A
File 777-10A
PRD File 703-A

MAY 15, 1992
SSER-207

Page 1 of 2
SSD-SUD-926245

TO: TRACI BITTLER, 722-A
Central Services Works Engineering

FROM: MARTIN DAVIS, 777-19A
Site Services Engineering

SAMPLE ANALYSIS

PROJECT NUMBERS: PESB 2-45

DONORA STATION ABANDONED KEROSENE DRUMS SOIL SAMPLE ANALYSIS (U)

Introduction:

Nine abandoned 55- gallon drums were discovered on March 27, 1992 adjacent to the CSX railroad right-of-way Donora station. This site is located in Barnwell county, East of gate 21 (see attachment #1). The drums were found at the bottom of the railroad embankment in close proximity to the switch station used to transfer trains from the CSX line to the Savannah River Site (see attachment #2). The drums are believed to have been abandoned prior to 1975. The drums, along with several hundred empty beer cans, were evidently rolled over the side of the embankment and abandoned in the woods. The drums had small amounts of liquid present at the time of discovery; analysis by SRL determined that the liquids present were Water and Kerosene. The drums were believed to be close to empty at the time of abandonment. An estimate of less then 55 gallons of total liquids was believed to be present in the nine drums removed. As potential for leakage into the environment from the drums existed, analysis of the underlying soil was conducted.

Sampling Notes:

Samples were collected on 4-20-92. Two samples were composited from depths of 0-6 inches from depressions left in the soil from the abandoned drums. The samples were collected from the lowest point in the depressions, increasing the probability of detecting Kerosene contamination present in the soil. Sample "A" was composited from depressions left on CSX property; sample "B" was composited from depressions found on SRS property. Both samples were analyzed for TPH (Total Petroleum Hydrocarbons) and BTEX (Benzene, Toluene, Ethyl Benzene, and Xylenes). Only two samples were to be collected for preliminary investigation as per request from EPD (Environmental Protection Department, Westinghouse). See attachment #3 for photographs taken of the site. Soil samples collected were rich in organic matter. Field observations from the site and the soil collected did not indicate the presence of Kerosene or petroleum odors.

MAY 15, 1992
SSER-207

Page 2 of 2
SSD-SUD-926245

Summary of Results:

Listed below is a summary of the analysis performed by Weston Analytics for BTEX and TPH determination of two soil samples collected from the Donora site (see attachment #4). Results are reported in mg/kg (equivalent to parts per million).

<u>Analysis</u>	<u>Sample "A"</u>	<u>Sample "B"</u>
Total Petroleum Hydrocarbons:	66.8	57.9
Benzene:	<0.0024	<0.0034
Ethyl Benzene:	<0.0024	<0.0034
Toluene:	0.0018*	<0.0034
Xylene (total):	<0.0024	0.0010*

* Present but below the detection limit.

Conclusions:

Low concentrations of Total Petroleum Hydrocarbons were detected at this site. No concentrations in significant quantity of BTEX constituents were detected. Based on these results the site is relatively free of Kerosene contamination.

Attachments:

- 1) Savannah River Site, Site Map Location of Donora Station
- 2) Project PESB 2-45 Donora Station Sample Site Location Diagram
- 3) Photographs of Donora Station Abandoned Drum Site
- 4) Weston Analytics report of analysis, RFW# 9204S627, 5/12/1992.

References:

- 1) SSER-200, Donora Station Abandoned Drums Sample Analysis, Martin Davis, 4/20/1992
- 2) SSER-201, Donora Station Abandoned Drums Final Sample Analysis, Martin Davis, 4/27/1992

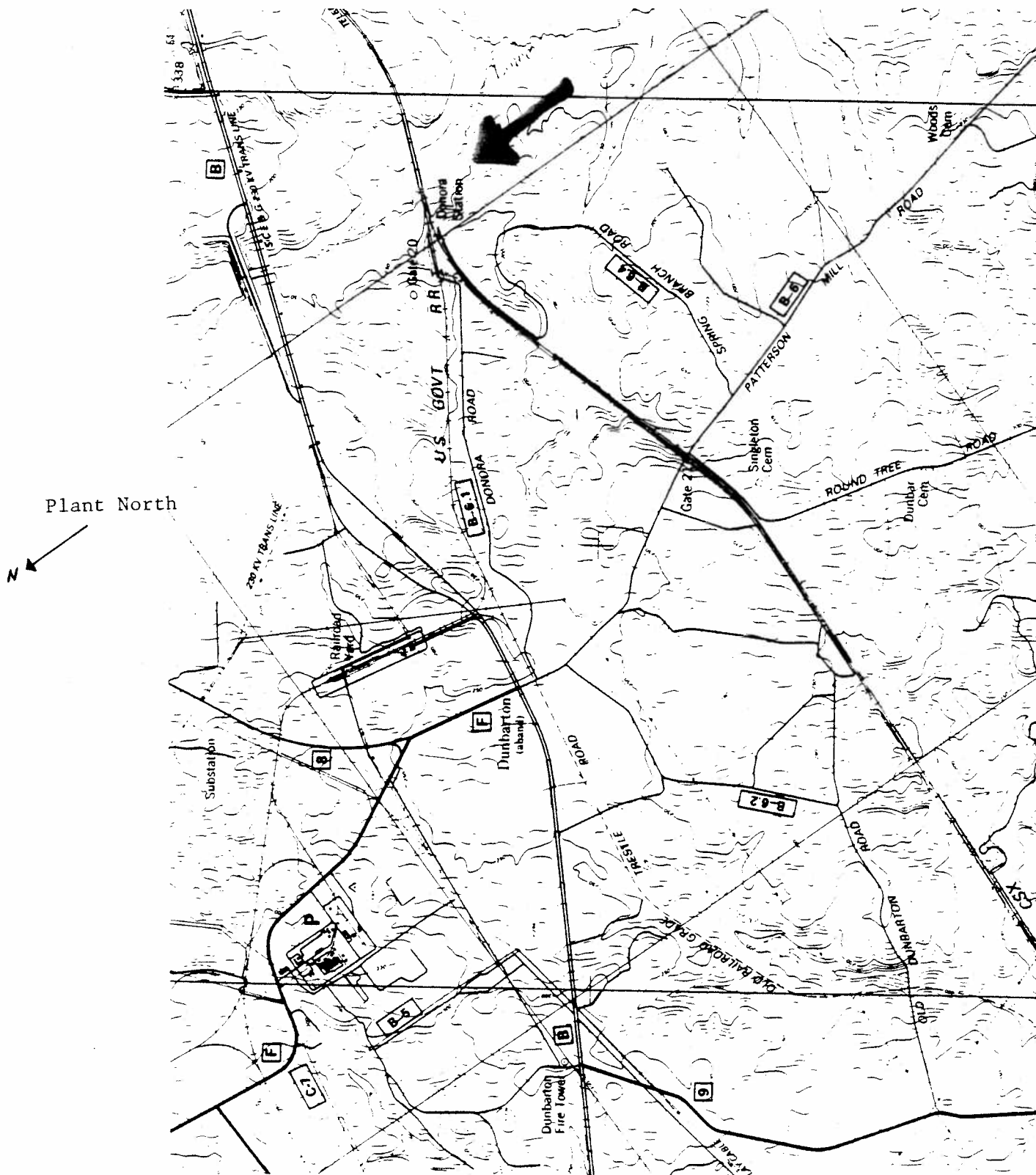
LOCKET NO. 001427 B

TEC
SUP

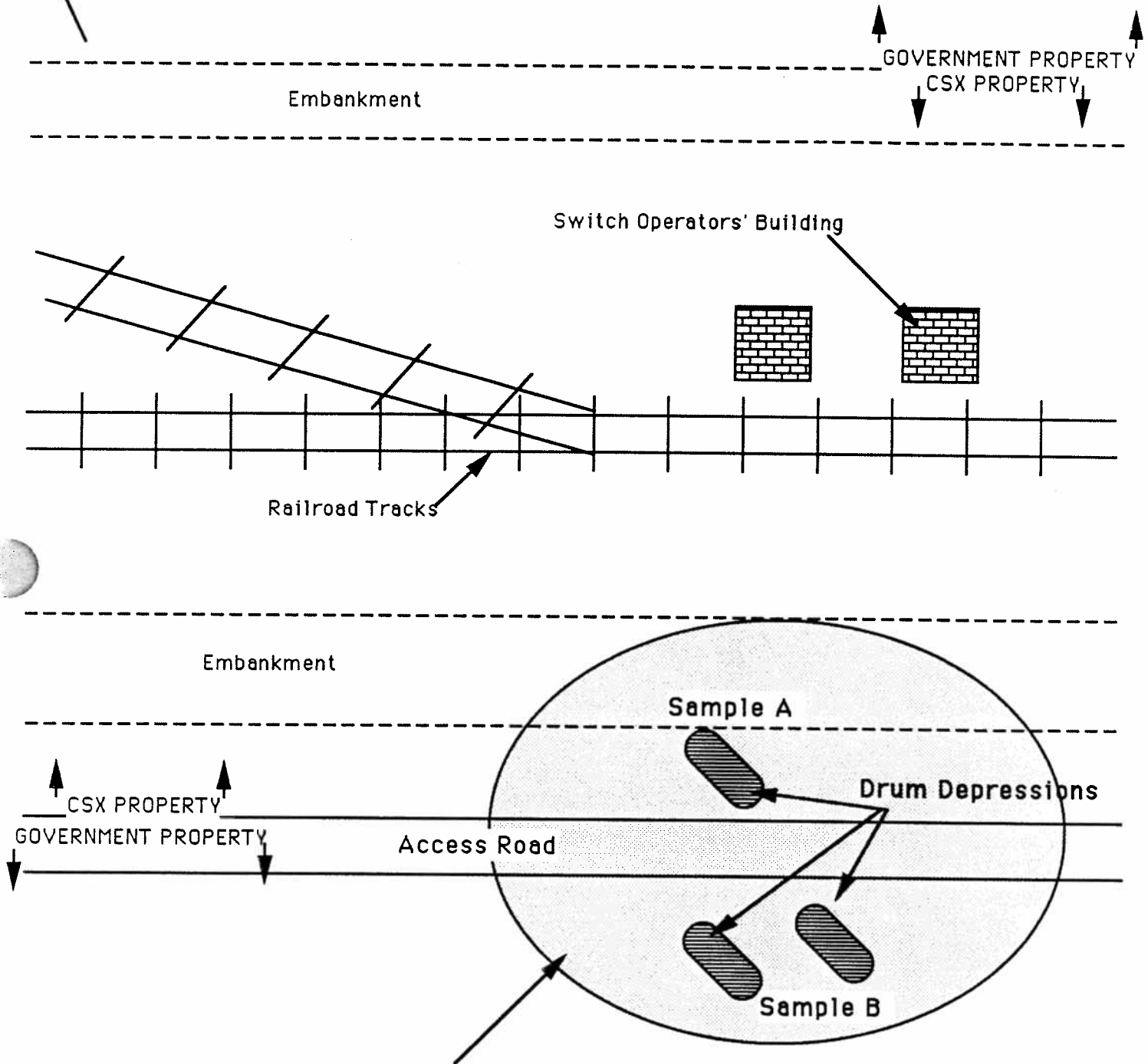
S1890008989

Attachment #1

Site Map Location of Donora Station



PROJECT PESB 2-45
DONORA STATION SAMPLE SITE LOCATION DIAGRAM



Abandoned drum site; approximate site
co-ordinates: N28800 , E 81000

001427 B

TEC
SUP

Site Services Engineering
Environmental & Chemical Systems
Engineer: Martin Davis
5-14-92

Drawing is not to scale

8989

Photographs of Donora Station Abandoned Drum Site

Site A: CSX Railroad Property. Drum Depression Outlined:



PESB 2-45
4-6-92



PESB 2-45
4-6-92

SSER #207
SSD-SUD#926245

Attachment #3

Page 2 of 2

Photographs of Donora Station Abandoned Drum Site

Site B: Government Property. Drum Depression Outlined:



PEB 2-45
4-6-92



PEB 2-45
4-6-92



PEB 2-45
4-6-92

001427B

TEC

S1890008989

SSER#207
SSD-SUD#926245

Attachment #4



Donora Station Kerosene Drums

Laboratory Report For

Ms. Rhonda Huffines
WSRC
P.O. Box 616
Aiken, SC 29808

12 May 1992

By

Roy F. Weston, Inc.
212 Frank West Circle, Suite A
Stockton, CA 95206
(209) 983-1340

R. W.
5/12/92

RFW#: 9204S627

Approved By: _____

Ronda L. Huffines

Date: 5-14-92

Ronda L. Huffines
Site Services Engineering

DATA QUALIFIERS

- B - Indicates the compound was found in the blank and the sample.
- E - Concentrations exceed calibration range of the instrument.
- I - Indicates Interference.
- J - Indicates an estimated value for either a TIC or an analyte that meets the identification criteria but the result is less than the specified reporting limit.
- T - Indicates the compound was found in the TCLP extraction blank and the sample.
- u - Indicates an inorganic compound was analyzed for but not detected.
- U - Indicates an organic compound was analyzed for but not detected.
- BS - Indicates matrix analyses were conducted on reagent grade water.
- BSD- Blank Spike Duplicate
- BDL- Below Detection Limit
- D - Indicates that surrogate/matrix spike recoveries were not obtained because the extract had to be diluted for analysis.
- DL - Indicates a secondary dilution
- DF - Dilution factor
- LCS- Laboratory Control Sample
- MB - Method Blank
- MS - Matrix Spike
- MSD- Matrix Spike Duplicate
- NA - Not Applicable
- X - Result is by calculation
- NS - Not Spiked *Result was outside advisory limits.

SECRET NO. 001427B

TEC
SUP

WESTON

NOTES:

Solid, sediment and sludge results are reported on a dry weight basis except when analyzed for Landfill disposal parameters (such as incineration or Illinois Green Sheet parameters). All other mg/kg results are reported on an "as received" basis.

Reporting limits are detection limits adjusted for sample size used, dilutions made, and in the case of dry weight results, the moisture content of the sample.

WESTON

ROY F. WESTON, INC.
STOCKTON ANALYTICAL LABORATORY
ANALYTICAL CASE NARRATIVE

Client: WRSC 2-45
RFW#: 9204S627

Test: SW8020-PURGEABLE AROMATICS

1. This narrative covers the analysis of two (2) soil samples in accordance with protocols based on SW-846, method 8020.
2. The analytical holding times for these analyses were met.
3. Continuing calibration criteria was met for this analysis, with the exception of Ethylbenzene (-15.3%) and p-Xylene (-16%) in the first standard.
4. The method blank associated with this samples did not contain any target analytes at, or above, the reporting limits.
5. All surrogate recoveries were outside Laboratory QC limits. Poor surrogate recoveries were due to matrix effects.
6. The blank spike recoveries were within Laboratory QC limits.
7. Retention times were within QC tolerance limits.
8. Confirmation by second column analysis was performed.

001427 *B*

[Signature]
Unit Leader

5-12-92 (revised)
Date

TEC
SUF



Roy F. Weston, Inc. - Stockton Laboratory
 8020 ANALYTICAL DATA PACKAGE FOR
 WSRC PESB 2-45

DATE RECEIVED: 04/21/92

RFW LOT # :9204S627

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
PESB-2-45-A	001	S	92SVI118	04/06/92	N/A	04/27/92
PESB-2-45-B	002	S	92SVI118	04/06/92	N/A	04/27/92

LAB QC:

BLK	MB1	S	92SVI118	N/A	N/A	04/27/92
BLK	MB1 BS	S	92SVI118	N/A	N/A	04/27/92

Roy F. Weston, Inc. - Stockton Laboratory
 Purgeable Aromatics by GC, Method 8020
 Client: MSRC PESB 2-45
 Work Order: 0345-38-01-0000
 Report Date: 05/07/92 11:14
 Page: 1

RFW Batch Number: 9204S627

Cust ID: PESB-2-45-A PESB-2-45-B

BLK

BLK BS

Sample Information

RFW#:

001

Matrix:

SOIL

D.F.:

1.00

Units:

ug/Kg

002

SOIL

1.00

ug/Kg

92SV1118-MB1

SOIL

1.00

ug/Kg

92SV1118-MB1

SOIL

1.00

ug/Kg

001427 B

TEC

Surrogate	aaa-Trifluorotoluene	NS	%	NS	%	NS	%	NS	%
	Bromofluorobenzene	54	*	56	*	85	%	85	%
Benzene		2.4	U	3.4	U	2.0	U	98	%
Ethylbenzene		2.4	U	3.4	U	2.0	U	95	%
Toluene		1.8	J	3.4	U	2.0	U	96	%
Xylene (total)		2.4	U	1.0	J	2.0	U	2.0	U

S1890008989

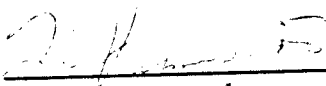
U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of Advisory limits.

ROY F. WESTON, INC.
STOCKTON ANALYTICAL LABORATORY
ANALYTICAL CASE NARRATIVE

Client: WSRC PESB 2-45
RFW#: 9204S627

Inorganics Case Narrative

1. Analysis completed in accordance with method 418.1.



T. L. Hammonds
Unit Leader



Date

Roy F. Weston, Inc. - Stockton Laboratory
INORGANIC ANALYTICAL DATA PACKAGE FOR
WSRC PESB 2-45

DATE RECEIVED: 04/21/92

RFW LOT # :9204S627

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
PESB-2-45-A						
% SOLIDS	001	S	92STS123	04/06/92	04/23/92	04/23/92
PETROLEUM HYDROCARBO	001	S	92SIR219	04/06/92	04/22/92	04/23/92
PETROLEUM HYDROCARBO	001 MS	S	92SIR219	04/06/92	04/22/92	04/23/92
PETROLEUM HYDROCARBO	001 MSD	S	92SIR219	04/06/92	04/22/92	04/23/92

PESB-2-45-B

% SOLIDS	002	S	92STS123	04/06/92	04/23/92	04/23/92
PETROLEUM HYDROCARBO	002	S	92SIR219	04/06/92	04/22/92	04/23/92

LAB QC:

% SOLIDS	MB1	W	92STS123	N/A	04/23/92	04/23/92
PETROLEUM HYDROCARBO	LC1 L	S	92SIR219	N/A	04/22/92	04/23/92
PETROLEUM HYDROCARBO	LC2 L	S	92SIR219	N/A	04/22/92	04/23/92
PETROLEUM HYDROCARBO	MB1	S	92SIR219	N/A	04/22/92	04/23/92

001427 B

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SUP

WESTON

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 04/28/92

CLIENT: WSRC PESB 2-45
WORK ORDER: 0345-38-01-0000

WESTON BATCH #: 9204S627

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
=====	=====	=====	=====	=====	=====
-001	PESB-2-45-A	% Solids	84.8	%	0.10
		Petroleum Hydrocarbons	66.8	MG/KG	11.8
-002	PESB-2-45-B	% Solids	58.9	%	0.10
		Petroleum Hydrocarbons	57.9	MG/KG	17.0

ROY F. WESTON INC.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 04/28/92

CLIENT: WSRC PESB 2-45
WORK ORDER: 0345-38-01-0000

WESTON BATCH #: 9204S627

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
=====	=====	=====	=====	=====	=====
BLANK10	92STS123-MB1	% Solids	0.10 u	%	0.10
BLANK10	92SIR219-MB1	Petroleum Hydrocarbons	10.0 u	MG/KG	10.0

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ROY F. WESTON INC.
INORGANICS ACCURACY REPORT 04/28/92

CLIENT: WSRC PESB 2-45
WORK ORDER: 0345-38-01-0000

WESTON BATCH #: 9204S627

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV
=====	=====	=====	=====	=====	=====	=====
-001	PESB-2-45-A	Petroleum Hydrocarbons	533	66.8	472	98.8
		Petroleum Hydrocarbons	537	66.8	472	99.6

ROY F. WESTON INC.

INORGANICS DUPLICATE SPIKE REPORT 04/28/92

CLIENT: WSRC PESB 2-45
WORK ORDER: 0345-38-01-0000

WESTON BATCH #: 9204S627

SAMPLE	SITE ID	ANALYTE	SPIKE#1 %RECOV	SPIKE#2 %RECOV	%DIFF
-001	PESB-2-45-A	Petroleum Hydrocarbons	98.8	99.6	0.80
LCS20	92SIR219-LC2	Petroleum Hydrocarbons	99.2	99.0	0.20

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ROY F. WESTON INC.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 04/28/92

SAMPLE =====	SITE ID =====	ANALYTE =====	SPIKED SAMPLE =====	SPIKED AMOUNT =====	UNITS =====	%RECOV =====
LCS10	92SIR219-LC1	Petroleum Hydrocarbons	397	400	MG/KG	99.2
LCS20	92SIR219-LC2	Petroleum Hydrocarbons	396	400	MG/KG	99.0

92045627

Custody Transfer Record/Lab Work Request

[illegible]

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS:

WESTON Analytics Use Only

Discrepancies Between
Samples Labels and
COC Record? Y or N

Samples were:
 1) Shipped Y or
 Hand Delivered
 Airbill #
 2) Ambient or Chilled
 3) Received in Good
 Condition Y or N
 4) Labels Indicate
 Property Preserved Y or N
 5) Received Within
 Holding Times Y or N

COC Tape was:

- 1) Present on Outer Package (Y) or N
- 2) Unbroken on Outer Package (Y) or N
- 3) Present on Sample Y or N
- 4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rect¹ Y, or N

RFW 21-7/91

L372

L373

5

1377

1378

But

Cooler#

201 ENCS

81 89 0008 989





Abandoned Drums
CSX Railroad Right-of-Way
Embankment littered with cans/bottles



Abandoned Drums
Close-up of can/bottle litter in area



Abandoned Drums



Abandoned Drums
"Atlantic Coastline"



Abandoned Drums
"Atlantic Coastline"



Abandoned Drums

Abandoned Drums





Abandoned Drums
"Kerosene"



Abandoned Drums

Embankment - Littered with Railroad ties

